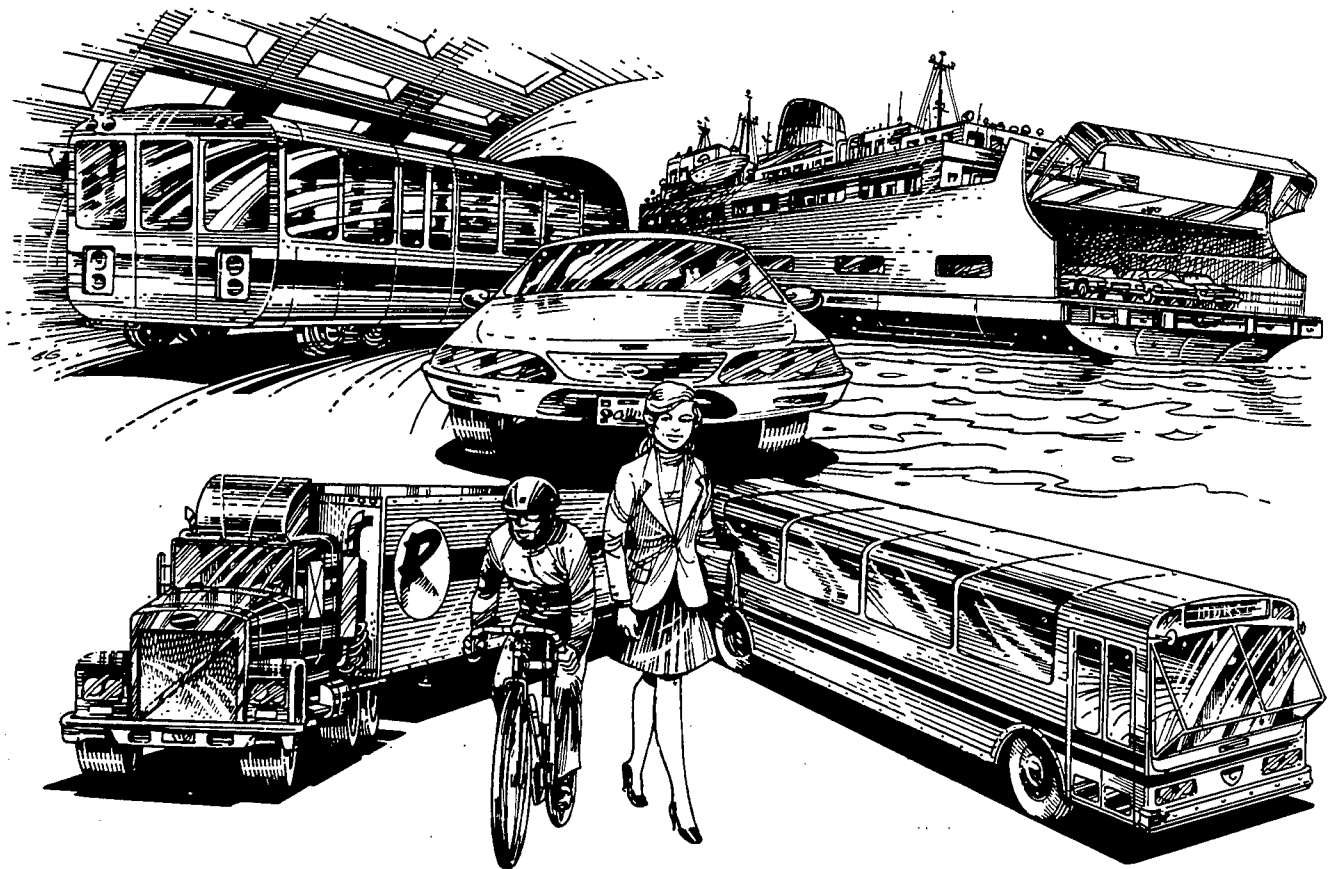




U.S. Department
of Transportation

**Federal Highway
Administration**

**Federal Transit
Administration**



Planning and Environmental Resources Catalog

Edited by:

Lynette J. Engelke
Texas Transportation Institute
Travel Model Improvement Program
201 E. Abram Street
Suite 600
Arlington, TX 76010
817-277-5503

Kimberly M. Fisher
Texas Transportation Institute
Travel Model Improvement Program
c/o Federal Highway Administration
400 7th Street, SW
HEP-22, Room 3232B
Washington, DC 20590
202-366-4054

September 1996



U.S. Department
of Transportation

**Federal Highway
Administration**

**Federal Transit
Administration**

Office of the Administrator

400 Seventh St., S.W.
Washington, D.C. 20590

Refer to: HEP-20
TPL-10


Dear Colleague:


The United States Department of Transportation has long recognized that the transportation community values more of our products than simply financial assistance. Since this Administration took office, we have taken special pains to provide a full range of technical, procedural and other forms of assistance to State and local transportation officials to help them do their jobs more effectively and efficiently. We recognize, however, that this assistance is only as good as our customers' ability to learn about and access it. Accordingly, this catalogue has been prepared as a joint effort of the Federal Highway Administration and the Federal Transit Administration as a service to our planning and environment customers. Its purpose is to serve as a guide to the vast array of resources, both human and information, that we have developed in support of transportation planning and the environment. Our intention is to make the attached catalogue one part of a multi-faceted strategy to ease the difficulty our customers have in obtaining the assistance we provide.

This catalogue is a printed version of an electronic data base that we have built and will keep current. Soon, that data base will be "on-line" along with an electronically accessible version of many of the documents it references. This "on-line" data base will be used to produce future catalogues, newsletters and other real time information resources for the transportation planning and environment community nationwide.

As we contemplate the reauthorization of the Intermodal Surface Transportation Efficiency Act, the Department of Transportation is taking great pains to gauge the thoughts of all our customers, public officials, business interests and citizens alike. Please be assured that after the passage of new legislation, the same spirit of responsiveness and cooperation will lead to further products like this catalogue and the other information services which go with it.

Sincerely yours,


Gordon J. Linton
Administrator, Federal Transit
Administration


Rodney E. Slater
Administrator, Federal
Highway Administration

PLANNING AND ENVIRONMENTAL RESOURCES CATALOG

FEDERAL HIGHWAY ADMINISTRATION

AND

FEDERAL TRANSIT ADMINISTRATION

TABLE OF CONTENTS

Product Listing

Air Quality — Policy/Guidance	1
Air Quality — Technical	11
Other Environmental, Social and Resource Impacts — Natural Resources	15
Other Environmental, Social and Resource Impacts — Noise	31
Other Environmental, Social and Resource Impacts — Social and Economic	35
Other Environmental, Social and Resource Impacts — Policy/Guidance	41
Transportation Finance — Technical	51
General Planning — Policy/Guidance	55
General Planning — Technical	57
Statewide Planning — Policy/Guidance	65
Statewide Planning — Technical	67
Metropolitan Planning — Policy/Guidance	69
Metropolitan Planning — Technical	81
Product Title Index	115

Staff Directory

Air Quality — Policy/Guidance	131
Air Quality — Technical	133
Other Environmental, Social and Resource Impacts — Natural Resources	135
Other Environmental, Social and Resource Impacts — Noise	137
Other Environmental, Social and Resource Impacts — Social and Economic	139
Other Environmental, Social and Resource Impacts — Policy/Guidance	141
General Planning — Policy/Guidance	143
General Planning — Technical	145
Statewide Planning — Policy/Guidance	147
Statewide Planning — Technical	149
Metropolitan Planning — Policy/Guidance	153
Metropolitan Planning — Technical	155
Staff Directory Index	159
Regional and State Personnel Directory	163
Appendix — List of Acronyms	183

PRODUCT LISTING

AIR QUALITY — POLICY/GUIDANCE

A Guide to the Congestion Mitigation and Air Quality Improvement Program

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Mike Savonis
202-366-2080

Publication Year: 1994

Media: Printed Material

Key Words: CMAQ, ISTEA, TCMs, SIPs

Abstract: This booklet explains the criteria and process of selecting eligible activities under ISTEA's Congestion Mitigation and Air Quality (CMAQ) Improvement Program. The CMAQ Program is generally classified into six major categories (transit improvements, shared-ride services, traffic flow improvements, demand management strategies, pedestrian and bicycle programs, and inspection and maintenance programs). CMAQ obligations by mode share are provided as examples to this successful transportation and air quality program. The appendix of the brochure provides contact organizations at the state and local levels for additional information or questions pertaining to CMAQ funding and eligibility.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-4836

A Summary — Air Quality Programs and Provisions of the Intermodal Surface Transportation Efficiency Act of 1991

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1992

Media: Printed Material

Key Words: ISTEA, CAAA, transportation programs, funding flexibility, CMAQ, MPOs

Abstract: This pamphlet has the purpose of providing a general overview of the programs offered under ISTEA pertaining to air quality programs under the CAAAs. The pamphlet outlines the basic goals of ISTEA and the CAAA discusses the funding flexibilities offered by various program categories. The implications of increased funding levels for planning and the strengthened role of the MPOs are discussed, and new programs such as the CMAQ Program are highlighted as a source of potential funding for TCM implementation under the CAA.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-4836

A Summary — Transportation Programs and Provisions of the Clean Air Act Amendments of 1990

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1992

Media: Printed Material

Key Words: CAAAs, transportation conformity, SIPs, NAAQS, TCMs.

Abstract: This brochure provides an excellent overview of the CAAAs and the planning requirements for SIP development. It discusses the effects of pollution on human health and how transportation planning assists in advancing the clean air goals of the CAAAs. The foldouts of the pamphlets provide colored tables illustrating the necessary planning requirements by severity and pollutant type. The brochure also attempts to provide definitions of the transportation conformity process and how ISTEA planning relates to the development of SIPs for attainment of the NAAQS. A listing of regional air quality specialists is provided in the appendix for additional questions or information.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-4836

Air Quality Programs & Provisions of the Intermodal Surface Transportation Efficiency Act of 1991: Summary

Author: FHWA

Supporting Organization(s)/Contact: FHWA

Publication Year: **Media:** Printed Material

Key Words: congestion mitigation and air quality improvement programs; ISTEA

Abstract: This brochure provides a brief summarization of the programs and the provisions outlined in ISTEA. These include: Funding Flexibility; Increased Funding Levels; Strengthened Planning Process; Strengthened Role of Metropolitan Planning Organizations; and New Congestion Mitigation and Air Quality Improvement Programs.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson

Challenges and Opportunities for Transportation Implementation of the Clean Air Act Amendments of 1990 and the Intermodal Surface Transportation Efficiency Act of 1991

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Jim Shrouds 202-366-2074

Publication Year: 1995 **Media:** Printed Material

Key Words: CAAAs, ISTEA, transportation conformity, transportation planning, highway funding sanctions

Abstract: The federal CAAAs of 1990 are intended to significantly affect transportation decision-making, not only to achieve air quality goals but also to affect broader environmental goals related to land use, travel mode choice, and reductions in vehicle miles traveled. The CAAAs require greater integration of transportation and air quality planning and assign a greater responsibility to transportation plans and programs for reducing mobile source emissions. By expanding the requirements for determining the conformity of transportation plans, programs, and projects with SIPs for air quality and by expanding the use of highway funding sanctions to enforce those requirements, the CAAAs ensure a continuing link between transportation and environmental goals. While the CAAAs give transportation and air quality decision-makers the mandate to better coordinate their

respective planning processes, ISTEA (1991) offers the tools to help carry out that mandate. Consequently, this paper summarizes the transportation and air quality provisions of both acts and their relationships.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Clean Air Briefs

Author: National Association of Regional Councils, John Swanson

Supporting Organization(s)/Contact: NARC, EPA, DOT

Publication Year: 1995 **Media:** Printed Material

Key Words: CAAAs, TCMs, SIPs, health risks, highway sanctions, MPO plan and TIP conformity

Abstract: NARC is a nonprofit, membership organization serving the nation's regional councils and MPOs across the country, with affiliate and associate membership from other public and private organizations interested in planning, development, and governance at the regional level. The Clean Air Briefs are a series of public information documents to better inform state and local planning officials of the issues related to transportation conformity, transportation control measures, the implications of highway sanctions and other health risk issues. The Clean Air Briefs are intended to give MPO public officials clear-cut information about some very complex issues, while using basic terminology for laypersons involved in the transportation/air quality planning processes.

Ordering Information:

NARC, 1700 K Street, NW, Suite 1300, Washington, DC 20006, 202-457-0710

Clean Air Through Transportation: Challenges in Meeting National Air Quality Standards

Author: US Department of Transportation and Environmental Protection Agency

Supporting Organization(s)/Contact: US DOT, Mike Savonis 202-366-2080, Camille Mittelholtz 202-366-4861; EPA

Publication Year: 1993 **Media:** Printed Material

Key Words: ISTEA, Clean Air Act of 1990, Air Quality Goals, TCMs, transportation planning, highway sanctions, SIPs

Abstract: This document serves as a joint report from the US DOT and US EPA that discusses the provisions and regulations governing the CAA of 1990. It also discusses under the section titled: "Challenges in Transportation and Air Quality Programs," the difficulties and obstacles facing persons within the transportation industry in meeting air quality goals. Topics that are discussed include: MPOs Face Significant Challenges in Meeting New CAA Requirements, Reducing Vehicle Emissions Through TCMs is Difficult, By Themselves, Capital-Intensive Investments May Not Be the Best Way to Address Air Quality Concerns and others. Under the section titled: "Status of Programs," topics discussed include: Full Funding of ISTEA Would Help Meet Mobility and Air Quality Goals, Limited CAA Funds Exist for Air Quality Operations and Management, Regulations and Guidance Implementing CAA and ISTEA Have Been Issued and others.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson, fax 202-493-2478

CMAQ FY '92 Program Annual Report

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality Policy Team, Mike Savonis 202-366-2080; FTA, Office of Planning, Abbe Marner 202-366-0096

Publication Year: 1993

Media: Printed Material

Key Words: CMAQ, TCMs, transit projects, highway projects, air quality benefits, federal-aid obligation rates, innovative technologies, CAA

Abstract: The report summarizes the expenditure of CMAQ funds by each state in the Nation. The listing of transportation projects (both highway and transit) also presents numerical air quality benefits expressed in kg/day of pollutant removed from the atmosphere. The report provides a national review of activities for six main categories of eligible transportation activities: (1) transit, (2) traffic flow improvements, (3) shared ride, (4) demand management, (5) pedestrian/bicycle and (6) inspection and maintenance or other TCMs. The report shows that 50.6 percent of all CMAQ expenditures were for transit, while traffic flow improvement projects (e.g., intersection and signalization improvements) accounted for 35.9 percent of all CMAQ expenditures for FY 92.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

CMAQ FY '93 Program Annual Report

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality Policy Team, Mike Savonis 202-366-2080; FTA, Office of Planning, Abbe Marner 202-366-0096

Publication Year: 1995

Media: Printed Material

Key Words: CMAQ, TCMs, transit projects, highway projects, air quality benefits, federal-aid obligation rates, innovative technologies, Clean Air Act

Abstract: The report summarizes the expenditure of CMAQ funds by each state in the Nation. The listing of transportation projects (both highway and transit) also presents numerical air quality benefits expressed in kg/day of pollutant removed from the atmosphere. The report provides a national review of activities for six main categories of eligible transportation activities: 1) transit; 2) traffic flow improvements; 3) shared ride; 4) demand management; 5) pedestrian/bicycle; and 6) inspection and maintenance or other TCMs. The report shows that 46.9% of all CMAQ expenditures were for transit, while traffic flow improvement projects (e.g. intersection and signalization improvements) accounted for 28.1% of all CMAQ expenditures for fiscal year 1993.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

CMAQ FY '94 Program Annual Report

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality Policy Team, Mike Savonis 202-366-2080; FTA, Office of Planning, Abbe Marner 202-366-0096

Publication Year: 1995

Media: Printed Material

Key Words: CMAQ, TCMs, transit projects, highway projects, air quality benefits, federal-aid obligation rates, innovative technologies, CAA

Abstract: The report summarizes the expenditure of CMAQ funds by each state in the Nation. The listing of transportation projects (both highway and transit) also presents numerical air quality benefits expressed in kg/day of pollutant removed from the atmosphere. The report provides a national review of activities for six main categories of eligible transportation activities: (1) transit, (2) traffic flow improvements, (3) shared ride, (4) demand management, (5) pedestrian/bicycle and (6) inspection and maintenance or other TCMs. The report shows that 40.4 percent of all CMAQ expenditures were for transit, while traffic flow improvement projects (e.g., intersection and signalization improvements) accounted for 34.1 percent of all CMAQ expenditures for FY 93. The third year of the CMAQ Program provided promising results, the states obligated \$215 million more than the previous year (36 percent more than FY 93). In FY 94, the Nation obligated approximately \$815 million out of the \$962 million that was apportioned to the states (which equates to an obligation rate of 85 percent).

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Conformity and the New Transportation Covenant

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Policy, Environmental Analysis Division, Jim Shrouds 202-366-2074

Publication Year: 1994

Media: Printed Material

Key Words: CAAAs, transportation conformity, transportation plans programs and projects, air quality trends, VMT, roles and responsibilities of public officials in the conformity process

Abstract: The CAAAs of 1990 established a requirement that transportation plans, programs, and projects conform to the purposes of SIPs for attainment of the NAAQS. This expanded requirement will result in substantial changes to the transportation planning and programming processes, including greater involvement by air quality officials. Similarly, transportation officials will need to play greater roles in the development of air quality plans. The result of these changes is a new covenant between various members of the transportation and environmental communities, one that realigns traditional relationships and responsibilities.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

EPA's Final Rule on Transportation Conformity

Author: Environmental Protection Agency

Supporting Organization(s)/Contact: EPA, Emission Control Strategies Branch, Emission Planning and Strategies Division, Kathryn Sargeant 313-741-7884;
FHWA, Office of Environment and Planning, Air Quality Policy Team, Lucy Garliauskas 202-366-2068, Mike Koontz 202-366-0639

Publication Year: 1993

Media: Printed Material

Key Words: transportation conformity, TCMs, emission budgets, air quality/transportation planning, conformity determinations, regional emissions analysis, emissions reductions, mobile source emissions, CAA

Abstract: On November 24, 1993, the EPA issued a final rule regarding transportation conformity criteria and procedures under 40 CFR parts 51 and 93. The final rule provides MPOs and state DOTs with the criteria for determining conformity of transportation plans, TIPs, and transportation projects in nonattainment and maintenance areas per the 1990 CAAAs. The EPA final rule also provides the procedural elements needed for the development of interagency consultation, and conflict resolution and establishes the need for fiscal constraint prior to MPO or joint DOT conformity determinations made by the FHWA or FTA. The EPA final rule on transportation conformity was amended twice in 1995, and a third amendment to the rule was expected in June 1996.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

EPA's First Amendment to the Transportation Conformity Rule

Author: Environmental Protection Agency

Supporting Organization(s)/Contact: EPA, Emission Control Strategies Branch, Emission Planning and Strategies Division, Office of Mobile Sources, Kathryn Sargeant 313-668-4441; FHWA, Office of Environment and Planning, Air Quality Policy Team, Lucy Garliauskas 202-366-2068, Mike Koontz 202-366-0639

Publication Year: 1995

Media: Printed Material

Key Words: transportation conformity, TCMs, emission budgets, air quality/transportation planning, conformity determinations, regional emissions analysis, emissions reductions, mobile source emissions, CAA

Abstract: On August 7, 1995, the EPA issued a final notice on the first amendment to the final rule on Transportation Conformity Rule (60 FR 40098). The amendment provides flexibility to states and local MPOs by aligning certain transportation conformity and CAA highway sanction dates to allow for the development of transportation plans, programs, and projects. This action provides emergency relief to certain areas that would otherwise have had to halt new federally funded highway and transit projects.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

EPA's Notice of Proposed Rulemaking (NPRM) on the Conformity Pilot Program

Author: Environmental Protection Agency

Supporting Organization(s)/Contact: EPA, Transportation and Market Incentives Group, Regional and State Programs Division, Elizabeth Cummings 313-741-7857; FHWA, Office of Environment and Planning, Air Quality Policy Team, Lucy Garliauskas 202-366-2068

Publication Year: 1996

Media: Printed Material

Key Words: transportation conformity, alternate procedures, conformity SIP, CAA

Abstract: The EPA is proposing to amend the Transportation Conformity Rule to allow EPA to create and implement a conformity pilot program. The pilot program would exempt up to six areas from some of the existing rule's requirements. After EPA approval, the areas will experiment with alternative conformity procedures for the 3-year duration of the program. This notice invites applications for participation in the pilot program and presents the application and selection process, which will be finalized in the final rule. Along with recent amendments to the Conformity Rule, the pilot program is part of an

EPA strategy to provide states and localities greater flexibility in meeting federal transportation conformity requirements while reinforcing CAA commitments. This strategy results from experience gained in implementing the Conformity Rule. The conformity pilot program would allow state and local transportation and air quality agencies the additional flexibility to seek out and test the conformity procedures that work best in their areas. Participating areas' experiences will be evaluated, and it is possible that successful pilot programs may ultimately lead to further changes in the Conformity Rule.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

EPA's Second Amendment to the Transportation Conformity Rule

Author: Environmental Protection Agency

Supporting Organization(s)/Contact: EPA, Transportation and Market Incentives Group, Regional and State Programs Division, Meg Patulski, 313-741-7842, FHWA Office of Environment and Planning, Air Quality Policy Team, Lucy Garliauskas 202-366-2068, Mike Koontz 202-366-0639

Publication Year: 1995

Media: Printed Material

Key Words: transportation conformity, TCMs, emission budgets, air quality/transportation planning, conformity determinations, regional emissions analysis, emissions reductions, mobile source emissions, Clean Air Act

Abstract: The second amendment to the EPA Transportation Conformity Rule was issued as a final rule (60 FR 57179) on November 14, 1995. The second amendment to the EPA Transportation Conformity Rule allow for the implementation of TCMs that are included within EPA-approved SIPs to proceed even during a conformity lapse scenario. In addition, transportation planners were given more time to conform to newly developed SIPs by eighteen months grace period in lieu of the original twelve months grace period. The nitrogen dioxide provisions of the conformity rule were modified to be consistent with other CAA requirements. Ambiguities in the original rule language were clarified and technical corrections were made by EPA in the second amendment to the Transportation Conformity Rule.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

EPA's Third Set of Amendments to the Transportation Conformity Rule

Author: Environmental Protection Agency

Supporting Organization(s)/Contact: EPA, Transportation and Market Incentives Group, Regional and State Programs Division, Kathryn Sargeant 313-668-4441; FHWA, Office of Environment and Planning, Air Quality Policy Team, Lucy Garliauskas 202-366-2068, Mike Koontz 202-366-0639

Publication Year: 1995

Media: Printed Material

Key Words: transportation conformity, TCMs, emission budgets, air quality/transportation planning, conformity determinations, regional emissions analysis, emissions reductions, mobile source emissions, Clean Air Act

Abstract: The third set of amendments to the EPA Transportation Conformity Rule was published as a Notice of Proposed Rulemaking in the Federal Register in June 1996. The amendments will provide for more streamlining and flexibility of the final rule. The amendments will propose that state and local governments would have more authority in setting the performance measures used as tests of conformity and provide more flexibility for areas before EPA approves their SIPs. In addition, non-federal projects could be adopted and approved during a conformity lapse period, provided that the project was included in the regional emissions analysis supporting the most recent transportation plan and TIP conformity determination. The third set of amendments will also propose less stringent modeling requirements for rural areas of less than 200,000; state and local governments are encouraged to submit examples of modeling alternatives for adding certain regionally significant transportation projects to transportation plans.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

FHWA Sanction Exemption Criteria

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality Policy Team, Kirk D. Fauver 202-366-2079

Publication Year: 1996

Media: Printed Material

Key Words: highway sanctions, exempt transportation projects, Clean Air Act, mandatory and discretionary EPA sanctions, transportation conformity, conformity lapsing, MPO, transportation plans and programs

Abstract: On March 11, 1996, the FHWA released a guidance document entitled "FHWA Sanction Exemption Criteria." This memo defines the exemption criteria that will be used to determine which projects can go forward and which grants may be awarded in the event EPA imposes highway sanctions under Section 179(a) or Section 110(m) of the Clean Air Act. The policy information identifies which categories of highway projects are exempt from highway sanctions, such as safety, environmentally beneficial, and planning and research activities funded under Title 23 (federal-aid highway program). The EPA and DOT have agreed that additional programs, such as TCMs in EPA-approved SIPs, inspection and maintenance facilities, bicycle and pedestrian facilities, carpool/vanpool programs, and conversion of existing lanes for HOV use during peak periods, are also categorically exempt during EPA highway sanctions. Additional information may be obtained via the guidance memorandum which was published in the Federal Register on April 1, 1996 (61 FR 14363).

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Flexible Funding Opportunities for Transportation Investments

Author: Federal Transit Administration, Sean Libberton, TPL-11

Supporting Organization(s)/Contact: Federal Highway Administration; Federal Transit Administration

Publication Year: 1996

Media: Printed Material

Key Words: ISTEA; flexible funding; public involvement; major investment studies

Abstract: This document serves as an informational guide to outlining the provisions and options available under ISTEA. In addition, this publication also provides a series of case studies

outlining an "inclusive and cooperative" approach to the transportation planning process. It also provides a brief overview of a selection of federal programs and opportunities covered by ISTEA, including: Flexible Funding; Major Investment Studies; Congestion Management Systems; Financial Constraints; Public Involvement Processes; Surface Transportation Programs; Congestion Mitigation and Air Quality Improvement Program and a host of others.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson, fax 202-493-2478

Guidance Update on the Congestion Mitigation and Air Quality Improvement Program

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality Policy Team, Mike Savonis 202-366-2080; FTA, Office of Planning, Abbe Marner 202-366-0096

Publication Year: 1996

Media: Printed Material

Key Words: CMAQ, TCMs, ISTEA, emissions reductions, NAAQS, air quality benefits, transportation projects, intermodalism, clean air programs and projects, maintenance areas, CAA

Abstract: On March 7, 1996, the FHWA updated the guidelines and criteria for eligibility of transportation projects funded under ISTEA's Congestion Mitigation and Air Quality (CMAQ) Improvement program to fund air quality programs and projects for the purpose of attaining and maintaining the NAAQS. Since the passage of the National Highway System (NHS) Designation Act, additional latitude was given by Congress for allowing the apportionment of CMAQ Program funds for maintenance areas (areas that have been redesignated recently by EPA for attainment of the NAAQS) without limitation. The CMAQ guidance update also incorporates changes, such as the "freezing" of distribution factors to 1994 levels and relaxation of the attainment deadline restriction (which originally required that some aspect of a project be operational prior to the area's attainment date). The NHS legislation made other changes to the CMAQ Program regarding the eligibility of traffic monitoring and the use of private donations as matching funds and revised the federal share payable for bicycle and pedestrian projects.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Innovations in Transportation and Air Quality

Author: Federal Highway Administration and Federal Transit Administration

Supporting Organization(s)/Contact: FHWA, Mike Savonis 202-366-2080; FTA, Abbe Marner 202-366-0096

Publication Year: 1996

Media: Printed Material

Key Words: congestion mitigation, air quality improvement, TCMs, innovative projects

Abstract: The booklet describes 12 exemplary projects funded under the Congestion Mitigation and Air Quality Improvement (CMAQ) Program in an effort to stimulate further innovation in addressing air quality problems through transportation measures. A diverse group of projects are described, ranging from intermodal connections to freight and goods movement to parking management, and pedestrian access. While the projects deal with different transportation issues, they all yield air quality and other benefits, such as

congestion relief, economic development, energy conservation, etc. Contact persons are listed for further information in the highlighted projects.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Particulate Matter Guidance Document

Author: Jay Turner

Supporting Organization(s)/Contact: FHWA, Air Quality Technical Team, Dick Schoeneberg
202-366-2076, Kevin Black 202-366-9485

Publication Year: 1995

Media: Printed Material

Key Words: particulate matter, PART5, conformity

Abstract: This paper was developed to advise field staff and others involved in particulate matter (PM-10) issues on the state of knowledge in this area. It discusses the PM standard, PM sources, and the classification of geographic areas into attainment and nonattainment areas. Some general information about modeling using the PART5 emission factor model is included. Conformity issues, SIPs requirements, and further revisions of the PM-10 NAAQS are also discussed.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Transportation Planning Requirements of the Federal Clean Air Act Amendments (CAAAAs) of 1990: A Highway Perspective (ASCE Transportation Planning and Air Quality)

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, HEP-40, Jim Shrouds, 202-366-2074

Publication Year: 1992

Media: Printed Material

Key Words: transportation conformity, highway sanctions, emissions reductions, interim conformity procedures, transportation planning and air quality, Clean Air Act

Abstract: The report summarizes the transportation conformity requirements of the 1990 Clean Air Act and the implications of highway sanctions as part of the metropolitan planning process prior to issuance of the EPA final rule. The more stringent tests of conformity are discussed in relation to transportation plans, TIPs and transportation projects under the 1990 CAAAs. The conformity implications have placed a greater emphasis on demand management and operational improvements for the existing transportation infrastructure. The report presents some of the new major challenges facing the transportation community to ensure SIP conformity and the need to establish new partnerships, improve communications, and to identify innovative solutions to improve air quality through land use planning and during SIP development for attainment of the NAAQS.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

PRODUCT LISTING

AIR QUALITY — TECHNICAL

A Manual of Regional Transportation Modeling Practice for Air Quality Analysis

Author: Deakin, Harvey, and Skabardonis (DHS) and Cambridge Systematics

Supporting Organization(s)/Contact: National Association of Regional Councils

Publication Year: 1993

Media: Printed Material

Key Words: transportation conformity, TCM analysis, emissions inventories and budgets, regional emissions analysis, travel demand forecasting, VMT estimation

Abstract: The manual was developed under the auspices of the Clean Air Project of the National Association of Regional Councils (NARC). A conference was held in Crystal City, Virginia in November of 1991, and nearly 100 regional, state, and federal transportation planning officials attended. This conference provided the opportunity for participants to set the direction for the development of the manual. The manual was developed for the purpose of providing guidance on CAA issues to consider in responding to new regional analysis needs, and especially for carrying out transportation modeling for air quality planning efforts. The manual reviews the current state of practice today and focuses primarily on travel demand forecasting as it is practiced by regional agencies- MPOs. It identifies and discusses modeling and analysis requirements resulting from the CAA and ISTEA, and suggests strategies for responding to specific analysis needs and for overcoming common problems. Further research needs are identified within the manual for purposes of research and development.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-4836

A Sensitivity Evaluation of CAL3QHC Dispersion Model for Carbon Monoxide Analysis at Urban Intersections

Author: Julie Lindeman

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality Technical Team, Dick Schoeneberg 202-366-2076, Joon Byun 202-366-2204

Publication Year: 1994

Media: Printed Material

Key Words: dispersion model, CAL3QHC, CO

Abstract: This paper was developed to evaluate the implications of EPA's proposed improvements to the current CAL3QHC model used to determine emission concentrations at intersections. It evaluates several variable used in the program by performing statistical analyses to find which variables had strong correlations to influencing the results of the model.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Air Quality Case Studies Report

Author: Volpe National Transportation Systems Center

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality
Technical Team, Dick Schoeneberg 202-366-2076, Joon Byun
202-366-2204

Publication Year: 1994

Media: Printed Material

Key Words: CAA, emission control, ISTEA, ozone nonattainment area

Abstract: This report examines the response by metropolitan areas to the 1990 CAAAs and the 1991 ISTEA as they relate to the process for establishing conformity of transportation improvement programs and plans. Cases studied in this report include the processes employed by Denver, Raleigh-Durham, Philadelphia, and Washington nonattainment areas and their focus on travel demand and air quality modeling. Also covered is information on demographic and economic issues and the estimated cost for determining conformity.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Conformity and Nitrogen Oxides (NO_x): Background and Case Studies

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality
Technical Team, Dick Schoeneberg 202-366-2076, Joon Byun
202-366-2204

Publication Year: 1994 **Media:** Printed Material

Key Words: nitrogen oxide, conformity, ozone, travel demand modeling

Abstract: This paper was developed to advise field staff and others involved in nitrogen oxide (NO_x) modeling. The first part of the paper is a memo discussing the background factors affecting NO_x pollution levels including such variables as vehicle speed and percentage of diesel vehicles in traffic. The second part describes certain modeling actions that can be taken to more accurately estimate the NO_x levels based on the experience gained in efforts with various State DOTs and MPOs.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Costs and Effectiveness of Transportation Control Measures (TCMs): A Review and Analysis of the Literature

Author: Apogee Research, Inc.

Supporting Organization(s)/Contact: NARC, FHWA

Publication Year: 1994

Media: Printed Material

Key Words: CAAAs, ISTEA, TCMs, transportation conformity, emissions reductions benefits, cost effectiveness, travel impact estimates

Abstract: The 1990 CAAAs and ISTEA (1991) require the use of TCMs for the purpose of conforming to SIPs and achieving the NAAQS. This document provides an overview of some real-life experiences with TCM implementation and the potential of TCMs to reduce the emissions from mobile sources. The emission reduction potential of TCMs is divided into strong, weak, and speculative scenarios for the purposes of this study.

The report analyzes TCMs only in context of their effectiveness and cost effectiveness with regard to reduction of emissions and is intended to provide valuable information on clean air effects of a variety of transportation measures.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-4836

Data Aggregation Issues in the Application of the MOBILE Emissions Model

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA, Dick Schoeneberg, 202-366-2076, Joon Byun, 202-366-2204

Publication Year: 1994

Media: Printed Material

Key Words: CAA, air quality, emission control, emission reduction, exhaust emissions

Abstract: This report discusses several technical issues relating to spatial and temporal data aggregation and collection and their use in emission estimation. Such topics as whether vehicle emissions should be calculated on a link, corridor, or other basis and whether emissions should be estimated on an hourly, peak period, or daily basis, are discussed. The effects resulting from the use of one method versus another are outlined. Other factors contributing to these issues are also examined.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Evaluation of the MOBILE Vehicle Emission Model

Author: Sierra Research, Inc.

Supporting Organization(s)/Contact: FHWA, Dick Schoeneberg 202-366-2076, Kevin Black, 202-366-9485

Publication Year: 1994

Media: Printed Material

Key Words: MOBILE, emission control, air quality, exhaust emissions

Abstract: EPA's MOBILE5 model is used to estimate emissions from on-road motor vehicles. MOBILE5 represents the fifth version of this program which has undergone continuous revision in attempts to estimate mobile source emission trends since its development in the late 70s. Modifications have been made to the MOBILE model structure in attempts to account for technical and policy changes including I&M programs, reformulated gasoline and oxyfuel programs, and other initiatives. Comparisons are made between the assumptions used in MOBILE5, MOBILE4.1, MOBILE 4, and emission rate projections.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Ozone Trends in Severe and Serious Non-Attainment Areas

Author: Volpe National Transportation Systems Center

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality Technical Team, Dick Schoeneberg 202-366-2076, Joon Byun 202-366-2204

Publication Year: 1994

Media: Printed Material

Key Words: CO, ozone, AIRS, trend analysis, NAAQS, nonattainment

Abstract: This report examines the ozone emission trends in 20 areas classified by the EPA as either serious or severe for nonattainment of the ozone standard over the years 1980-1993. Trends were evaluated to determine their statistical significance and to compare the magnitude and direction of the trends on an urban, regional, and national basis. In performing the analysis several factors were considered including meteorology, geographic variations, and effects of economic growth.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Qualitative Assessment of IVHS Emission and Air Quality Impacts

Author: Jack Faucett Associates

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality Technical Team, Dick Schoeneberg 202-366-2076, Joon Byun 202-366-2204

Publication Year: 1993

Media: Printed Material

Key Words: IVHS, emission control, air quality

Abstract: This report describes IVHS program contributions to air quality. It outlines the current debate on the role of IVHS in reducing congestion in light of the argument that increasing capacity will induce more travel and offset any gains made in reducing traffic congestion and emissions. The report also discusses strategies designed to reduce emissions by encouraging mode shifts and plans designed to reduce pollution, such as inspection and maintenance programs.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

The MOBILE Model and Transportation Planning: A Brief Overview

Author: Volpe National Transportation Systems Center

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Air Quality Technical Team, Dick Schoeneberg 202-366-2076, Kevin Black 202-366-9485

Publication Year: 1995

Media: Printed Material

Key Words: MOBILE, transportation planning, CAA, emissions estimate, HC, CO, NOx

Abstract: This is a simplified summary of the MOBILE model and how it is used in transportation planning. The booklet was developed for distribution to nontechnical audiences that work with the transportation field and use the results of the MOBILE model.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

PRODUCT LISTING

OTHER ENVIRONMENTAL, SOCIAL AND RESOURCE IMPACTS

NATURAL RESOURCES

A Guidebook for Application of Hydrogeomorphic Assessments to Riverine Wetlands (Report number WRP-DE-11)

Author: Mark Brinson, F.R. Hauer, L.C. Lee, W.L. Nutter, R.D. Rheinhardt, R.D. Smith, D. Whigham

Supporting Organization(s)/Contact: US Army Corps of Engineers, Waterways Experiment Station; FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1995

Media: Printed Material

Key Words: wetlands, hydrogeomorphic, functions, assessment, federal regulatory program, riverine, ecosystems, landscape

Abstract: This document provides the basic outline and guidance for regionalization of functional assessment models applicable to riverine wetlands under the hydrogeomorphic (HGM) functional assessment methodology. It explains the basis and principles behind the HGM method, describes the riverine wetland classes, and gives general functional models for different wetland functions performed by riverine wetlands that should be evaluated under the Section 404 Permit Program.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067; National Technical Information Service 703-487-4780

An Approach for Assessing Wetland Functions Using Hydrogeomorphic Classification, Reference Wetlands, and Functional Indices. Report number WRP-DE-9.

Author: Smith, R. D., Alan Amman, Candy Bartoldus, and Mark Brinson

Supporting Organization(s)/Contact: U. S. Army Corps of Engineers Waterways Experiment Station

Publication Year: 1995

Media: Printed Material

Key Words: wetlands, hydrogeomorphic, functions, assessment, federal regulatory program

Abstract: This document provides the procedural framework for applying the Hydrogeomorphic Wetland Functional Assessment methodology wetlands. It explains the basis and principals behind the HGM method, describes the HGM wetlands classification system, and gives examples of assessment.

Ordering Information:

Available from FHWA to State Highway Agencies. Paul Garrett 202-366-2067; National Technical Information Service, 703-487-4780

Attention Motorists — The Bats Have Landed on Our Bridge

Author: Paul Garrett

Supporting Organization(s)/Contact: FHWA, Environmental Analysis Division, Public Roads Magazine

Publication Year: 1996

Media: Printed Material

Key Words: bats, bridges, highway projects, ecology, Texas, endangered species

Abstract: This magazine article tells about the well publicized population of Mexican freetail bats that roost between beams under the Congress Avenue Bridge in Austin, TX. It also discusses aspects of bat ecology, their status as endangered and declining species worldwide, and a program established by the TxDOT to enhance highway structures as bat habitat.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067 or Editorial Offices, Public Roads 703-285-2379, McLean, VA

Building Partnerships — Building Bridges

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1993

Media: Printed Material and Video

Key Words: Isle of Palms, wetlands, public involvement

Abstract: Brochure and video explain a bridge replacement project in Charleston, SC, which connects the Isle of Palms to the mainland. The project included an intensive public involvement and agency coordination process to generate information concerning wetland protection and access issues. In the end, the process was successful. Transportation and environmental needs were met.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-6724

Community Guide to Planning & Managing a Scenic Byway

Author: R.D. Mingo and Associates, National Trust for Historic Preservation, and Scenic America

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division

Publication Year: 1996

Media: Printed Material

Key Words: corridor management, public involvement, management, intrinsic qualities, planning

Abstract: This is a comprehensive guide to assist individuals, community organizations and local governments in developing and implementing a corridor management plan for a scenic byway.

Ordering Information:

National Scenic Byways Clearinghouse, 1440 New York Ave, NW, Suite 202, Washington, DC 20005, 202-628-7718 or 1-800-4BYWAYS, fax 202-783-4798

Conflicts on Multiple-Use Trails

Author: Roger Moore, North Carolina State University

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Christopher Douwes 202-366-5013

Publication Year: 1994

Media: Printed Material

Key Words: multiple-use, trail conflict, trail management, trail sharing, recreation, motorized, non-motorized

Abstract: The National Recreational Trails Advisory Committee requested a synthesis of trail conflicts to promote trail sharing. This report reviews the current state of practice and serves as a guide for trail managers and researchers. The goals of the report are to promote user safety, protect natural resources, and provide high-quality user experiences. The report reviews management options, such as trail design, information and education, user involvement, and regulations and enforcement. The report provides principles for minimizing conflicts on multiple-use trails. It is intended for trail managers, State and local trail coordinators, researchers, and trail-user volunteer organizations.

Ordering Information:

National Bicycle & Pedestrian Clearinghouse, 1506 21st St, NW, Suite 210, Washington, DC 20036, 202-463-8405 or 800-760-6272, fax 202-463-6625

Emerging Issues in Transportation and Water Quality

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1996

Media: Video

Key Words: transportation, water quality, environmental, National Pollution Discharge Elimination System permits

Abstract: This teleconference was targeted for state transportation environmental officials and other transportation and environmental agency employees who are interested in seeing examples of cooperative efforts in the transportation/water quality issues. The conference began with overviews of water quality issues from representatives of the FHWA and the EPA. These overviews were followed by two case studies. Representatives from Pennsylvania's transportation and environmental agencies addressed ways in which they worked together to come up with successful strategies for performing bridge maintenance while protecting water quality. Representatives from Oregon's transportation and environmental agencies discussed their attempts to work together to modify the National Pollution Discharge Elimination System permit process to apply on a watershed basis rather than a population basis. The broadcast was held May 23, 1995, from the Center for Transportation and the Environment at North Carolina State University.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Pat Cazenias 202-366-4085

Environmental Excellence Awards

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1996

Media: Printed Material

Key Words: call for Entries, non-motorized transportation, habitat, water quality, and wetland preservation, historic and archeological preservation, roadside vegetation management, noise abatement, air quality improvement, community cohesion, leadership, process, research

Abstract: The biennial awards program was developed by the FHWA to honor those partners, projects and processes that excel in meeting growing transportation demands while protecting and enhancing the environment. Anyone may nominate a project, process, person, or group that has used FHWA funding sources to make an outstanding contribution to transportation and the environment. Projects must have been completed after ISTEA (1991) was signed into law on December 18, 1991. Entries must be submitted by September 15, 1996, to the Division Administrator at the FHWA Division Office in the state in which the entry is located. Entries will be selected by an independent panel of judges from varying backgrounds. Winners will be announced at an Earth Day '97 ceremony in Washington, DC.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Pat Cazenias 202-366-4085

Environmental Excellence Awards - 1995

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division and Environmental Operations Division

Publication Year: 1995

Media: Printed Material and Video

Key Words: environmental projects and processes, stewardship, public involvement, environmental programs, transportation, Earth Day, bicycle and pedestrian safety, congestion mitigation and air quality improvement, recycling, wetland and water quality management, transportation enhancement

Abstract: This program promotes and recognizes exemplary environmental projects and processes, as well as people who create them. Our greatest challenge is to meet growing transportation demands while protecting and enhancing our environment. The success of FHWA's environmental program depends on our outstanding partners in such areas as: bicycle/pedestrian safety, CMAQ improvement, public involvement, recycling, wetland and water quality management, and transportation enhancements on federal-aid highways and highway-related facilities. The brochure highlights the 1995 winners, who were announced on the eve of Earth Day. The video is a tape of the award ceremony. These projects selected for the 1995 Environmental Excellence Awards are only a sample of the outstanding work being done to build an efficient, effective intermodal transportation network that fits harmoniously within our natural environment, our neighborhoods, and our communities.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Pat Cazenias 202-366-4085

Environmental Research Needs in Transportation

Author: Transportation Research Board

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1992

Media: Printed Material

Key Words: research, environment

Abstract: Reports the proceedings and findings of a national conference held in 1991 to formulate a highway and transportation-related program of needed environmental research. Prioritized research problem statements covering the full range of environmental topic areas are included.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-6724

Evaluation and Management of Highway Runoff Water Quality (Water Quality Synthesis)

Author: G. Kenneth Young, Stuart Stein, Pamela Cole, Traci Kammer, Frank Graziano and Fred Bank

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1996

Media: Printed Material

Key Words: water quality, highway runoff, nonpoint source pollution, water quality regulations, monitoring, modeling, best management practices

Abstract: The objective of this manual is to gather and synthesize the results of past documentation and research on highway storm water runoff into a single-volume user's manual on water quality assessment and mitigation. The manual will be useful to highway designers and environmental professionals by presenting the available and appropriate impact prediction and mitigation tools for use during highway project planning and development activities. This manual is a self-contained desk reference for highway practitioners and includes an extensive bibliography.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Fred Bank 202-366-5004

Evaluation of Wetland Mitigation Measures

Author: A. Crabtree, E. Day, A. Garlo, G. Stevens

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1992

Media: Printed Material

Key Words: wetlands, highways, impacts, mitigation, functions, assessment

Abstract: This report analyzes 17 highway wetland mitigation projects in 14 states, comparing them to natural control wetlands to evaluate the effectiveness of the mitigation to perform wetland functions and values. Field biologists used two assessment methods in the field to compare mitigation sites and controls. Conclusions and recommendations for mitigation are made.

Ordering Information:

Report Number FHWA-RD-90-083, FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067

Excellence In Highway Design, Graphic Database CD — 1996

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1996 **Media:** Electronic Media

Key Words: CD-ROM, database, projects

Abstract: A database of approximately 600 photos of nominated and winning projects submitted for the biennial Excellence In Highway Design Awards from the years 1984-1994.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-6825, fax 202-366-3409

Exemplary Erosion Control and Roadside Vegetation Project on the Idaho/Montana State Line

Author: Ginny Finch

Supporting Organization(s)/Contact: FHWA, EPA (Watershed Events)

Publication Year: 1996 **Media:** Printed Material

Key Words: erosion control, vegetation establishment, geo-fabrics

Abstract: Article describes the use of geo-fabric materials as an erosion control measure in combination with innovative use and installation of native plant species on steep slopes of highly erodible soils.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Ginny Finch 202-366-4285

Funding for Establishment of Wetland Mitigation Banks Memorandum

Author: Federal Highway Administration

Supporting Organization(s)/Contact: Environmental Analysis Division

Publication Year: 1994 **Media:** electronic file, paper copy

Key Words: guidance, policy, federal-aid, highways, wetlands mitigation banks

Abstract: This guidance clarifies FHWA policy relative to federal-aid participation in costs to implement wetland mitigation required by impacts to wetlands on federal-aid highway projects. The guidance addresses participation issues on establishing and sustaining mitigation credits in wetland banks and other wetland mitigation projects. Success in wetland mitigation establishment is defined. Types of site establishment activities eligible for federal-aid participation are identified. The duration of eligibility for federal-aid participation is established.

Ordering Information:

Paul Garrett, 202-366-2067

Greener Roadsides

Author: Federal Highway Administration, Bonnie Harper-Lore, Editor

Supporting Organization(s)/Contact: FHWA

Publication Year: On-going **Media:** Printed Material

Key Words: landscaping, native species, roadsides, vegetation management, maintenance

Abstract: Award-winning newsletter features information and practical suggestions for roadside and maintenance managers and related decision-makers. Editions are written around themes

of important roadside and vegetation management issues. An annual photography contest in the newsletter provides recognition to outstanding State wildflower programs. Readers may request their names and addresses be added to the newsletter mailing list.

Ordering Information:

FHWA, Bonnie Harper-Lore 612-290-3233, fax 612-290-3256.

Highways and the Environment: Innovative Mitigation

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1996 **Media:** Video and Printed Material

Key Words: mitigation, environmental sensitivity

Abstract: This video highlights three exemplary highway projects in which environmental sensitivity was critical to project success. The projects are: I-310 wetland project near New Orleans, Glenwood Canyon in Colorado, and public art projects in Phoenix. The video package includes an executive summary (brochure) and a report.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-6825, fax 202-366-3409

Intrinsic Qualities Handbook: A Field Assessment Guide

Author: RTCA, National Park Service

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division

Publication Year: 1996 **Media:** Printed Material

Key Words: intrinsic qualities, evaluation

Abstract: This guide presents a practical approach for identifying and evaluating the six intrinsic qualities.

Ordering Information:

National Scenic Byways Clearinghouse, 1440 New York Ave, NW, Suite 202, Washington, DC 20005, 202-628-7718 or 1-800-4BYWAYS, fax 202-783-4798

National Academy of Sciences Wetlands Task Force Report: Wetlands, Characteristics and Boundaries

Author: National Academy of Science/National Research Council, Wetlands Characterization Committee

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division; NAS Water Science and Technology Board

Publication Year: 1995 **Media:** Printed Material

Key Words: wetlands, wetland functions, wetland values, wetland policy, definition of wetlands, delineation of jurisdictional wetlands, characterization of wetlands, federal regulation, planning, assessment, landscapes, ecosystems

Abstract: In 1993, the National Academy of Science was directed by Congress to convene a committee of legal and scientific experts to address questions concerning the federal wetland regulatory program. At issue were the adequacy of the regulatory definition of wetlands, the functional characteristics of different kinds of wetlands relative to objectives of the Clean Water Act, and procedures through which the various federal

programs addressing wetlands were carried out. In 1995, the final report, 306 pages, was released. The report includes a "reference" ecological definition of wetlands, discusses wetland functions and values, addresses controversial wetland types, and makes recommendations for federal wetland management programs.

Ordering Information:

The National Academy Press, 2101 Constitution Avenue, Washington, DC 20418

National Evaluation of Water Quality Issues for Highway Planning

Author: Fred G. Bank, et al.

Supporting Organization(s)/Contact: FHWA, TRB

Publication Year: 1995 **Media:** Printed Material

Key Words: water quality, research, best management practices

Abstract: Results of past research on highway stormwater runoff are gathered and synthesized into a single-volume user's manual on water quality impact assessment and mitigation. Paper describes the process by which the synthesis was produced and highlights some preliminary results.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Fred Bank 202-366-5004

National Recreational Trails Advisory Committee Annual Report for FY 1993

Author: National Recreational Trails Advisory Committee

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Christopher Douwes 202-366-5013

Publication Year: 1994 **Media:** Printed Material

Key Words: trail, recreation

Abstract: This report describes the activities and recommendations of the National Recreational Trails Advisory Committee during FY 93.

Ordering Information:

National Bicycle & Pedestrian Clearinghouse, 1506 21st St, NW, Suite 210, Washington, DC 20036, 202-463-8405 or 800-760-6272, fax 202-463-6625

National Recreational Trails Advisory Committee Annual Report for FY 1994

Author: National Recreational Trails Advisory Committee

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Christopher Douwes 202-366-5013

Publication Year: 1995 **Media:** Printed Material

Key Words: trail, recreation

Abstract: This report describes the activities and recommendations of the National Recreational Trails Advisory Committee during FY 94. It includes statements made by committee

members to Deputy Federal Highway Administrator Jane Garvey and includes summaries of how states used their 1993 allocations through the National Recreational Trails Funding Program.

Ordering Information:

National Bicycle & Pedestrian Clearinghouse, 1506 21st Street, NW, Suite 210, Washington, DC 20036, 202-463-8405 or 800-760-6272, fax 202-463-6625

Participation in Funding for Ecological Mitigation

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1995

Media: electronic media, printed material

Key Words: federal-aid, highways, ecosystem, habitat, wildlife, mitigation, policy

Abstract: This guidance clarifies federal-aid funding eligibility of mitigation measures undertaken as a result of ecological impact of federal-aid highway projects to habitat and wildlife. The authority of ISTEA is explained. FHWA field offices are encouraged to use the full authority of ISTEA in mitigating ecological impact of highway projects.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067

Participation in Funding for Ecological Mitigation-Memorandum

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1995

Media: Printed Material

Key Words: ecological mitigation

Abstract: Memorandum provides guidance on federal-aid expenditures for mitigating impact to ecological resources affected by highway projects. Issues, such as habitat banking and monitoring, are covered.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067

Plant a Legacy . . . Support "America's Treeways"

Author: Federal Highway Administration

Supporting Organization(s)/Contact: AASHTO, The Tree Trust, US Forest Service, National Association of State Foresters, Take Pride in America

Publication Year: 1992

Media: Printed Material

Key Words: trees, treeways, native species, landscaping

Abstract: Brochure explains the benefits of establishing a tree-planting program at the State and local levels. Stresses the importance of establishing and maintaining cooperation among agencies and a spirit of volunteerism in the public.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-6724

Promoting Environmental Sensitivity: Business Organization and Operations

Author: The Townsend Consulting Group

Supporting Organization(s)/Contact: FHWA

Publication Year: 1995

Media: Printed Materials (set of three)

Key Words: environmental sensitivity, environmental consciousness, environmental ethics, environmental responsibility

Abstract: The set consists of an executive summary, a report profiling environmentally sensitive private corporations, and a report profiling environmentally sensitive state DOTs. These reports show how several organizations have integrated environmental thinking into their business practices in such a way that environmentally responsible behavior becomes a natural way of doing business, rather than an add-on activity.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-0106

Results of Wetlands Mitigation Associated with Highway Projects

Author: Paul Garrett, Federal Highway Administration, Environmental Analysis Division

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1995

Media: Printed Material

Key Words: wetlands, mitigation, highways, assessment, success, no-net-loss

Abstract: This research paper was presented at the Corps of Engineers Wetlands Symposium held in New Orleans, LA, April 1995. It analyzes data on wetland mitigation projects carried out for highway projects, collected as part of an FHWA research project, Evaluation of Wetland Mitigation Measures, FHWA-RD-90-083, dated May 1992. The paper evaluates the results of mitigation projects on a no-net-loss basis, considering ecological and socioeconomic functions and values ascribed to wetlands, through two functional assessment techniques, WET and the Hollands-Magee methodologies. Most projects did not meet no-net-loss criteria when functional equivalency was considered, although they may have resulted in an equal area of wetland being created or established. Some projects resulted in the conversion of one wetland type to another, resulting in a net loss of wetland area. Others resulted in a net gain of wetland area, with a replacement of one type of wetland for another (out-of-kind mitigation). Most decisions regarding selection of a mitigation alternative appear to have been based on the availability of an acceptable mitigation site, local wetland management priorities and objectives, or cost.

Ordering Information:

FHWA, 400 7th Street SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067

Retention, Detention, and Overland Flow for Pollutant Removal from Highway Stormwater Runoff

Author: M.E. Dorman, J. Hartigan and B. Maestri

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1996

Media: Printed Material

Key Words: water quality, stormwater, highway runoff, retention and detention basins, grassed channels and swales, detention basins, overland flow, vegetative controls

Abstract: Provides guidelines for the design of management measures for the removal of pollutants from highway stormwater runoff. Three general types of management measures have

been determined to be effective in treating runoff: vegetative controls, detention basins, and retention measures. The guidelines are based on review of other available studies and the results of field and laboratory studies conducted under this study to verify design procedures and assumptions.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Fred Bank 202-366-5004

Scenic Byways Advisory Committee Report to Congress

Author: Scenic Byways Advisory Committee

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division

Publication Year: 1994

Media: Printed Material

Key Words: designation, nomination, criteria, intrinsic qualities

Abstract: This report contains the National Scenic Byways Advisory Committee's recommendations for the National Scenic Byways Program to the Secretary of Transportation.

Ordering Information:

Report Number FHWA-PD-93-053, National Scenic Byways Clearinghouse, 1440 New York Ave, NW, Suite 202, Washington, DC 20005, 202-628-7718 or 800-4BYWAYS, fax 202-783-4798

Scenic Byways Multimedia Presentation

Author: Avalon Integrated Services, Inc. and FHWA Scenic Byways Team

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division; National Scenic Byways Clearinghouse

Publication Year: 1996

Media: CD-ROM and Slides

Key Words: designation, nomination, criteria

Abstract: The presentation notebook has been developed to give an overview of the National Scenic Byways Program in conjunction with the guided presentation and related information. Included are a CD-ROM, slides and speaker notes.

Ordering Information:

National Scenic Byways Clearinghouse, 1440 New York Ave, NW, Suite 202, Washington, DC 20005, 202-628-7718 or 800-4BYWAYS, fax 202-783-4798

Texas Aquifer Study Offers Clues to Controlling Highway Runoff

Author: Ginny Finch

Supporting Organization(s)/Contact: FHWA, EPA (Watershed Events)

Publication Year: 1994

Media: Printed Material

Key Words: stormwater, water quality research, monitoring, runoff

Abstract: Article describes a stormwater runoff and water quality study conducted by TxDOT. The study examines runoff pollutants under simulated rainfall conditions. Results used to formulate monitoring and mitigation strategies for potential highway impact on the Edwards aquifer in the Austin/San Antonio region.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Ginny Finch 202-366-4285

The Ecosystem Approach and Transportation Development

Author: Paul A. Garrett and Fred G. Bank

Supporting Organization(s)/Contact: FHWA

Publication Year: 1995

Media: Printed Material

Key Words: ecosystem approach, transportation planning

Abstract: The paper describes the ecosystem approach and suggested application to the planning and development of needed transportation improvements. The report of the Interagency Ecosystem Management Task Force is discussed as an impetus to various efforts State transportation agencies are pursuing around the nation to implement an ecosystem approach on highway projects and programs.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067 or Fred Bank at 202-366-5004

The Executive Memorandum on Landscaping

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1995

Media: Printed Material

Key Words: landscaping, native species, maintenance

Abstract: The memorandum provides guidance to FHWA offices and state transportation agencies on the implementation of the President's executive memorandum on landscape practices for federal agency lands and programs. Specifically, the recommendations cover reducing maintenance costs through improved cultural practices, use of native species, irrigation management and similar topics.

Ordering Information:

FHWA, Bonnie Harper-Lore 612-290-3233, fax 612-290-3256

The National Recreational Trails Funding Program

Author: Coalition for Recreational Trails

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Christopher Douwes 202-366-5013

Publication Year: 1993

Media: Video

Key Words: trail, recreation, motorized, nonmotorized

Abstract: This video provides a background of the National Recreational Trails Funding Program. It is narrated by Senator Ben Nighthorse Campbell of Colorado and includes a segment from Senator Steve Symms of Idaho, the sponsor of the Trails Program.

Ordering Information:

National Bicycle & Pedestrian Clearinghouse, 1506 21st Street, NW, Suite 210, Washington, DC 20036, 202-463-8405 or 800-760-6272, fax 202-463-6625

Threatened and Endangered Species Listings Memorandum

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Environmental Analysis Division

Publication Year: 1993

Media: Printed Material

Key Words: endangered species, Fund for Animals, status review, ESA

Abstract: This memorandum transmits information on the endangered species candidate list for which status review is required under the settlement with Fund for Animals, filed December 15, 1992, in US District Court.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067

Transportation Planning — The Watershed Connection

Author: Fred G. Bank

Supporting Organization(s)/Contact: FHWA

Publication Year: 1996

Media: Printed Material

Key Words: watersheds, ISTEA, transportation and land-use planning

Abstract: This paper provides a national focus for an envisioned relationship of transportation and watershed planning. A case study example illustrates how the relationship can work to maximize coordination and cooperation between watershed and transportation stakeholders. This process may be used as a model for stakeholders in other parts of the country to protect and enhance critical watershed values, while meeting their areas' needs for safe and efficient surface transportation systems.

Ordering Information:

FHWA, 400 7th Street, SW (HEP-40), Washington, DC 20590, Fred Bank 202-366-5004

Use of Private Wetland Mitigation Banks as Compensatory Mitigation for Highway Project Impacts Memorandum

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1995

Media: Printed Material, Electronic Media

Key Words: federal-aid funds, wetlands, private wetland banks, mitigation, highways, policy

Abstract: This guidance answers specific questions asked about private wetland mitigation banks and the use of federal-aid highway funds when mitigating wetlands impacts of federally funded highway projects. The responses represent current FHWA policy and authority relative to NEPA, ISTEA, and Section 404. The guidance is consistent with the Interagency Federal Guidelines for the Use of Wetland Mitigation Banks.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067; National Technical Information Service 703-487-4780

Visual Database of Transportation Enhancements CD-ROM

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1996

Media: Electronic Media

Key Words: CD-ROM, enhancements, database, photographs

Abstract: A multimedia database containing over 200 transportation enhancement projects from around the country on CD-ROM. Information about the projects includes a written description, photographs, and some video clips. Last updated July 1996.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-6825, fax 202-366-3409

Water Quality Research Needs in Transportation

Author: Fred G. Bank

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1993

Media: Printed Material

Key Words: water quality research, stormwater runoff, best management practices

Abstract: Paper highlights a multiyear program of research envisioned by the FHWA to continue the study of water quality associated with highway stormwater runoff. Paper lists proposed studies to examine runoff constituents, monitoring equipment, best management practices, effects on receiving waters, and area-wide impact assessment.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Fred Bank 202-366-5004

WEThings; Wetland Habitat Indicators for Non-Game Species -Wetland Dependent Amphibians, Reptiles, and Mammals of New England (TEI Publication Number 94-1)

Author: Whitlock, A. L., N. M. Jarman, J. A. Medina, and J. S. Larson

Supporting Organization(s)/Contact: Environmental Analysis Division, FHWA; The Environmental Institute, University of Massachusetts

Publication Year: 1994

Media: Electronic Media, Printed Material

Key Words: wetlands, amphibians, reptiles, mammals, wetland-dependent, habitat, indicators

Abstract: WEThings is a pc-based methodology that analyses data from wetlands to determine the suitability as habitat for various wetland dependent animals. The method uses an expert system approach based on habitat use models developed from scientific literature and reports on habitat use and requirements of the species of concern. The output is a statement concerning habitat suitability for one or more of 59 species occurring in New England.

Ordering Information:

Available to State Highway Agencies from FHWA. Paul Garrett 202-366-2067; The Environmental Institute, Blaisdell House, University of Massachusetts, Amherst, MA 01003-0820

Wetland Banking and Banking Agreements Memorandum

Author: Federal Highway Administration

Supporting Organization(s)/Contact: Environmental Analysis Division

Publication Year: 1993

Media: Printed Material

Key Words: wetland mitigation banking, status, state highway agencies

Abstract: This memorandum provides State-by-State information on the status of wetland banking by State Highway Agencies and recommends actions by FHWA division and regional

offices to encourage the appropriate use of mitigation banking in the highway project development process.

Ordering Information:

Paul Garrett, 202-366-2067

Wetlands and Highways — A Natural Approach

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1993

Media: Printed Material

Key Words: wetlands, mitigation banking

Abstract: Highlights the concept of mitigation banking by providing case study examples of wetland protection and enhancement measures conducted on highway projects nationwide.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-6724

Wildflowers and the Federal-Aid Highway Program

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1992

Media: Printed Material

Key Words: native wildflowers, STURAA, landscaping

Abstract: Information brochure describes the wildflower planting requirements of the Surface Transportation and Uniform Relocation Assistance Act of 1987 (STURAA). STURAA requires that 0.25 percent of funds used for landscaping on every federal-aid highway project be spent to plant native wildflowers. The brochure suggests that in meeting this requirement, State transportation agencies work cooperatively with native wildflower advocates, such as garden clubs and botanical societies.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-6724

PRODUCT LISTING

OTHER ENVIRONMENTAL, SOCIAL AND RESOURCE IMPACTS

NOISE

Guide on Evaluation and Attenuation of Traffic Noise

Author: American Association of State Highway and Transportation Officials

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Bob Armstrong 202-366-2073, Steve Ronning 202-366-2078

Publication Year: 1993

Media: Printed Material

Key Words: noise, noise study, attenuation, noise barrier

Abstract: This brochure contains guidelines for the abatement of traffic-generated noise through highway design procedures and techniques. It discusses: (1) the nature of noise, (2) a systems approach for addressing noise, (3) the highway noise study, (4) noise attenuation measures and (5) noise barrier design considerations. It is intended for all audiences.

Ordering Information:

AASHTO, 444 North Capitol Street, NW, Suite 225, Washington, DC 20001

Highway Traffic Noise

Author: Federal Highway Administration, edited by Washington State Department of Transportation

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Bob Armstrong 202-366-2073, Steve Ronning 202-366-2078

Publication Year: 1992

Media: Printed Material

Key Words: noise, roads

Abstract: This pamphlet describes some of the fundamentals of highway traffic noise and the noise requirements in the highway program. It is intended for the general public, elected officials, and anyone interested in learning about the basics of highway traffic noise.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Highway Traffic Noise Analysis and Abatement: Policies and Guidance

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Bob Armstrong 202-366-2073, Steve Ronning 202-366-2078

Publication Year: 1995

Media: Printed Material

Key Words: standards, prediction, impacts, abatement measures

Abstract: This paper provides FHWA policies and guidance for the analysis and abatement of highway traffic noise. It discusses: (1) noise legislation, (2) noise fundamentals, (3) the FHWA noise regulations, (4) the requirements of traffic noise analysis and documentation, (5) traffic noise abatement, including reasonableness and feasibility, (6) appropriate levels

of traffic noise analysis and (7) traffic noise analyses for highway lane addition projects. It is intended for highway traffic noise analysts.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Highway Traffic Noise Barrier Construction Trends

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Bob Armstrong 202-366-2073, Steve Ronning 202-366-2078

Publication Year: 1994

Media: Printed Material

Key Words: noise barrier, trends, costs, materials

Abstract: This paper presents noise barrier construction trends for all noise barriers constructed with highway program monies since 1973, as reported by State highway agencies. It contains tables for: (1) noise barrier construction by year, (2) noise barrier construction average unit cost by year, (3) Type I and Type II noise barrier construction by year, (4) noise barrier construction by height, (5) noise barrier construction material by year, (6) noise barrier construction material average unit cost by year, (7) noise barrier construction material by height and (8) noise barrier construction material average unit cost by height. It is intended for all audiences.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Highway Traffic Noise in the United States: Problem and Response

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Bob Armstrong 202-366-2073, Steve Ronning 202-366-2078

Publication Year: 1994

Media: Printed Material

Key Words: three-part approach, noise abatement, noise barriers

Abstract: This paper discusses the three-part approach to dealing with the problem of highway traffic noise in the United States. The first part, noise-compatible land use planning, is traditionally an area of local responsibility. The other two parts, source control of vehicle noise emissions and highway project noise mitigation, are the joint responsibility of private industry and federal, state and local governments. The paper also contains FHWA's noise regulations and is intended for the general public, elected officials, and anyone interested in learning about highway traffic noise requirements.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Parallel Barrier Effectiveness Under Free-Flowing Traffic Conditions

Author: Gregg Fleming, Edward Rickley

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Bob Armstrong 202-366-2073, Steve Ronning 202-366-2078

Publication Year: 1992

Media: Printed Material

Key Words: noise, parallel noise barrier degradation, multiple reflections, reflective barrier, absorptive barrier

Abstract: This report presents the results of a measurement study performed at a highway noise barrier site located along I-495 in Montgomery County, MD. The objective of the study was to measure the degradation in acoustic performance of a highway noise barrier resulting from the proximity of a parallel barrier on the opposite side of the roadway. The report is intended for highway traffic noise analysts.

Ordering Information:

National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, 703-487-4650 (Sales Desk)

Parallel Noise Barrier Effectiveness

Author: Gregg Fleming, Edward Rickley

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Bob Armstrong 202-366-2073, Steve Ronning 202-366-2078

Publication Year: 1990

Media: Printed Material

Key Words: noise, parallel noise barrier, insertion loss, tiltable barriers, absorptive barriers

Abstract: This report presents the results of testing on experimental parallel noise barriers constructed at a site at Dulles International Airport in Chantilly, VA. The study focused on the use of absorptive treatment and tilting as a means of improving the insertion loss of two parallel barriers. It also evaluated the feasibility of modeling a moving point source with an artificial fixed-point source. The report is intended for highway traffic noise analysts.

Ordering Information:

National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, 703-487-4650 (Sales Desk)

Roadside Noise Abatement

Author: Organization for Economic Cooperation and Development (OECD)

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Bob Armstrong 202-366-2073, Steve Ronning 202-366-2078

Publication Year: 1995

Media: Printed Material

Key Words: highway, legislation, model, measurement, noise barrier, prevention

Abstract: This report reviews the current state of the art and national experience with noise abatement techniques for new and existing roads. It presents the regulations and limits prevailing in the different OECD countries and provides the criteria used in measuring, evaluating, and predicting noise. Low-noise road pavements and noise barriers, walls and screens are assessed in detail. The report also describes the impact of road layout,

including tunnels, cuttings and embankments, on noise levels. It is intended for road professionals, environmental planners, and transport managers.

Ordering Information:

OECD, ISBN 92-64-14578-8, 2, rue André-Pascal, 75775 Paris, Cedex 16

Summary of Noise Barriers Constructed by December 1992

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Bob Armstrong 202-366-2073, Steve Ronning 202-366-2078

Publication Year: 1994

Media: Printed Material

Key Words: noise barriers, state highway agencies

Abstract: This paper contains a listing of all noise barriers constructed with highway program monies since 1973, as reported by State highway agencies. The listing is updated every 3 years and contains information on length, height, cost, material, location, and year constructed for each State. It is intended for all audiences.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590

Transit Noise and Vibration Impact Assessment

Author: Harris Miller, Miller & Hanson Inc.

Supporting Organization(s)/Contact: FTA, Abbe Marner 202-366-2360

Publication Year: 1995

Media: Printed Material

Key Words: noise, vibration, transit, impact assessment, impact criteria, mitigation measures

Abstract: Guidance manual presents methods and procedures for assessing noise and vibration impacts of mass transit projects. Covers methods for assessing impacts during corridor studies when mode and alignment are being determined as well as methods for predicting site-specific impacts from the proposed project. Discusses mitigation measures and how to analyze their effectiveness; noise and vibration during the construction phase; and documenting the results of noise and vibration studies. This manual is useful not only for technicians performing the analyses but for others who desire only an overview of the subject.

Ordering Information:

Report No. DOT-T-95-16; US DOT, Subsequent Distribution Office, Ardmore, East Business Center, 3341Q 75th Avenue, Landover, MD 20785-0001

PRODUCT LISTING

OTHER ENVIRONMENTAL, SOCIAL AND RESOURCE IMPACTS

SOCIAL AND ECONOMIC

A Look at Our Nation's Highways

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1993

Media: Printed Material

Key Words: projects, recreation, historic districts, bridges, communities

Abstract: A series of 3 brochures containing descriptions of 13 highway projects that used creative and thoughtful approaches to help resolve difficult design challenges. Subjects include linking transportation and recreation, preserving urban and historic districts and rebuilding bridges and communities.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-6825, fax 202-366-3409

Balancing Transportation and Preservation

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1993

Media: Printed Material

Key Words: New Mexico, innovative engineering, historic

Abstract: A close up look at New Mexico 65 in Montezuma, NM, where innovative engineering helped to preserve a historic building and culvert in a historic district.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-6825, fax 202-366-3409

Building on the Past, Traveling to the Future: A Preservationist's Guide to the ISTEA Transportation Enhancement Provision

Author: I Mei Chan, editor; various authors

Supporting Organization(s)/Contact: FHWA, National Trust for Historic Preservation

Publication Year: 1995

Media: Printed Material

Key Words: historic preservation, ISTEA, transportation enhancement activities, case studies, project financing, contacts

Abstract: A description of some of the wide variety of historic preservation projects completed or close to completion as part of the transportation enhancement activities of state DOTs and the FHWA. The booklet demonstrates what can be accomplished by state DOTs and local groups and that historic preservation can help revitalize communities and stimulate economic growth.

Ordering Information:

Transportation Enhancement Clearinghouse, 202-463-0641

***Building on the Past; Traveling to the Future — Transportation Enhancement Booklet
— Cooperative Agreement with the National Trust for Historic Preservation***

Author: National Trust for Historic Preservation, I Mei Chan, writer/editor; various other authors

Supporting Organization(s)/Contact: NTHP, I Mei Chan 703-308-8883; FHWA, Office of Environment and Planning, Environmental Operation Division, Brenda C. Kragh 202-366-2064

Publication Year: 1995

Media: Printed Material

Key Words: transportation enhancement activities, ISTEA, historic preservation, case studies, project financing, contacts.

Abstract: A user-friendly guide to transportation enhancement, describing its history, eligible project categories, current requirements, what to expect when applying for funds, and State contact persons. About half the book describes the wide variety of historic preservation projects completed or close to completion as part of the transportation enhancement activities of state DOTs and the FHWA. The booklet demonstrates what can be accomplished by state DOTs and local groups and that historic preservation can help revitalize communities and stimulate economic growth.

Ordering Information:

Transportation Enhancement Clearinghouse, 1506 21st Street, NW, Suite 210, Washington, DC 20036, 888-388-6832 or 202-463-0641, fax 202-463-0875

Community Impact Assessment: A Quick Reference for Transportation Analysts

Author: Apogee Research, Michael Grant, writer; various other authors

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Brenda C. Kragh 202-366-2064

Publication Year: 1996

Media: Printed Material

Key Words: community impact assessment, public involvement, Title VI, community profile, community impact assessment process

Abstract: This is a user-friendly guide for transportation professionals and analysts who assess the impacts of proposed transportation actions on communities. It describes the community impact assessment process and how it fits within the FHWA environmental process, highlights critical areas that must be examined, identifies basic tools and information sources, and stimulates the thought processes.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-0106

Community Impact Mitigation Case Studies

Author: Louis Berger, Inc., Kevin Twine, principal investigator; various others

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Operation Division, Brenda C. Kragh 202-366-2064

Publication Year: 1996 (forthcoming) **Media:** Printed Material

Key Words: community impact assessment, mitigation, case studies

Abstract: This is a user-friendly report for transportation professionals highlighting six project experiences in mitigating impacts on communities resulting from transportation proposed transportation project.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-0106

Corporate Amenities, Trip Chaining and Transportation Demand Management

Author: Federal Transit Administration

Supporting Organization(s)/Contact: FTA, Effie Stallsmith 202-366-5653

Publication Year: 1994 **Media:** Printed Material

Key Words: travel behavior, TDM, land use, trip chaining

Abstract: This document reviews the relationship between commuter trip chaining and high occupancy vehicle use. Research on the role of site amenities at two corporate sites in Williamson County, TN showed that significant reduction and elimination of vehicle miles of travel resulted from employee on-site amenity activity. The research provides direction for microscale changes in the physical design and integration of land uses that will reduce trip chaining and better support TDM objectives. Incremental changes to retrofit or infill a richer, market-based mix of amenities, services and facilities into suburban office parts is recommended.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, (TPL-21), Room 6100, Washington, DC 20590, Effie S. Stallsmith (mailing label requested)

Historically Black College and University (HBCU) Project with South Carolina State University -- Multi-Media Technology Video Tapes

Author: South Carolina State University; South Carolina Department of Transportation

Supporting Organization(s)/Contact: SC DOT, Val Burroughs 803-737-6361; FHWA, SC Division, David Law 803-253-3886, Metropolitan Planning Division, Brenda Kragh 202-366-2064

Publication Year: 1996 **Media:** Video

Key Words: Summer Transportation Institute, National Transportation Institute, Beauford, SC, social impact assessment, videotapes, database, environmental curriculum

Abstract: Two multimedia-technology, public participation videotapes are forthcoming. These videotapes are intended for viewing by the general public in advance of public meetings or hearings. They show the public what to expect at an SC DOT event and encourage participation in highway project development.

Ordering Information:

South Carolina DOT, Val Burroughs 803-737-6361

Historically Black College and University (HBCU) Project with South Carolina State University -- Environment Curriculum Development

Author: South Carolina State University; South Carolina Department of Transportation

Supporting Organization(s)/Contact: SC DOT, Val Burroughs 803-737-6361; FHWA, SC Division, David Law 803-253-3886, Metropolitan Planning Division, Brenda Kragh 202-366-2064

Publication Year: 1996 **Media:** Electronic Media

Key Words: Summer Transportation Institute, National Transportation Institute, Beauford, SC, social impact assessment, videotapes, database, environmental curriculum

Abstract: The environmental curriculum study involves the feasibility of initiating a bachelor degree program in environmental transportation studies. It involved surveys of high school students and environmental firms to determine their needs. Also, about 150 universities across the country provided data on their environmental studies curricula. The final report

for this effort is forthcoming. The university curricula data collected for this effort have been put on a user-friendly database, which is scheduled to be finalized by late summer 1996.

Ordering Information:

South Carolina DOT, Val Burroughs 803-737-6361

Historically Black College and University (HBCU) Project with South Carolina State University -- Social Impact Assessment for Beauford, SC

Author: South Carolina State University; South Carolina Department of Transportation

Supporting Organization(s)/Contact: SC DOT, Val Burroughs 803-737-6361; FHWA, SC Division, David Law 803-253-3886, Metropolitan Planning Division, Brenda Kragh 202-366-2064

Publication Year: 1996 **Media:** Printed Material

Key Words: Summer Transportation Institute, National Transportation Institute, Beauford, SC, social impact assessment, videotapes, data base, environmental curriculum

Abstract: A social impact assessment was conducted in the town of Beauford, SC, concerning anticipated impact from a federal-aid highway project. The FEIS is forthcoming.

Ordering Information:

South Carolina DOT, Val Burroughs 803-737-6361

Historically Black College and University (HBCU) Project with South Carolina State University -- Summer/National Transportation Institute 1993-96

Author: South Carolina State University; South Carolina Department of Transportation

Supporting Organization(s)/Contact: SC DOT, Val Burroughs 803-737-6361; FHWA, SC Division, David Law 803-253-3886, Metropolitan Planning Division, Brenda Kragh 202-366-2064

Publication Year: 1996 **Media:** Course

Key Words: Summer Transportation Institute, National Transportation Institute, Beauford, SC, social impact assessment, videotapes, data base, environmental curriculum

Abstract: The Summer Transportation Institute began at South Carolina State University and has now expanded to 20 HBCUs in 18 states. It is now called the National Transportation Institute. The annual transportation institutes involve students from the 9th and 10th grades spending 4 weeks on an HBCU campus. The emphasis is on learning "in the field" about career opportunities in the transportation industry from people currently in those careers. It was well received and continues to expand; the current goal is to train 500 students per summer.

Ordering Information:

Summer/National Transportation Institute, Beauford, SC, Clarence W. Hill (SCSU) 803-536-8863

Linking the Delta with the Nation and the World

Author: Martin Weiss, FHWA, et al.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Martin Weiss 202-366-5010

Publication Year: 1995 **Media:** Printed Material

Key Words: delta, employment growth, economic development, transportation improvement

Abstract: In 1990, the Lower Mississippi Delta Development Commission, chaired by then-Governor Bill Clinton, made over 400 recommendations related to developing human capital, natural and physical resources, private enterprise and the environment. Included in the recommendations were over 50 having to do with transportation, most involving highways. In 1995, the FHWA, in cooperation with the seven states with counties and parishes comprising the Lower Mississippi Delta, completed an update of the transportation and related portions of the Commission's work. Among the findings were that job growth, a critical need in the Delta, had been very strong. In fact, relative job growth in the Delta, an area previously referred to as the "Third World on the Mississippi" exceeded national growth. This job growth was directly, fundamentally and unambiguously tied to transportation (especially highway) improvements.

Ordering Information:

Report Number FHWA-PD-96-007

FHWA Research and Technology Report Center, 9701 Philadelphia Court, Unit Q, Lanham, MD 20706, 301-577-0818

Participate in Archeology

Author: National Park Service Departmental Consulting Archeologist, et al.

Supporting Organization(s)/Contact: FHWA, Environmental Analysis Division; NPS, BR, BLM, Department of Interior; FS, Department of Agriculture; Department of Army

Publication Year: 1994

Media: Printed Material

Key Words: archeology, volunteers, field work, historic preservation, education, reading list, state DOT, cultural heritage, annotated bibliography, reading and video tape lists

Abstract: Archeological sites are both fragile and irreplaceable and are important to our understanding of our nation's heritage. This brochure provides information about how individuals can participate in archeology through reading, visiting museums, visiting field investigations or even participating in actual field work. State DOTs are identified as contacts for more information.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-6724; Department of the Interior, NPS, P.O. Box 37127 (436), Washington, DC 20013-7127

Planning, Developing, and Implementing Community-Sensitive Transit

Author: Federal Transit Administration

Supporting Organization(s)/Contact: FTA, Effie Stallsmith 202-366-5653

Publication Year: 1996

Media: Printed Material

Key Words: livable communities, transit planning

Abstract: This booklet describes and illustrates some of the ways the transportation planning, development, and implementation process is producing community-sensitive transportation facilities and services. This booklet outlines the techniques that transportation agencies, metropolitan planning organizations, local governments, and

communities can use to help achieve the broader transportation, economic, social and environmental benefits of transit investments.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, (TPL-21), Room 6100, Washington, DC 20590, Effie S. Stallsmith (mailing label requested)

PRODUCT LISTING

OTHER ENVIRONMENTAL, SOCIAL AND RESOURCE IMPACTS POLICY/GUIDANCE

Addressing Congestion Management System Requirements in Environmental Documents

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1993

Media: Printed Material

Key Words: congestion management, CMS, TMA, SOV, highway capacity

Abstract: This memorandum from the Director of the Office of Environment and Planning provides guidance regarding the information and commitments required in environmental documentation for projects that increase SOV capacity in transportation management areas that are in nonattainment air quality status for carbon monoxide or ozone.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-0106

Alternative Share for Transportation Enhancements

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1995

Media: Printed Material

Key Words: transportation enhancements, local match, innovative financing, in-kind contribution

Abstract: This memorandum announces an innovative financing test and evaluation project that allows FHWA to increase the federal share up to 100 percent as a means of facilitating projects involving private cash and in-kind contributions that did not qualify as the local match on FHWA projects before November 1995. This innovative financing authority is made available through FY 97.

Ordering Information:

FHWA, Office of Environment and Planning, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-2054, fax 202-366-3409

Clarification Metric Conversion for Environmental Documents

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1994

Media: Printed Material

Key Words: metric conversion, metric

Abstract: Clarification of FHWA policy on the conversion to the use of metric units from English units in environmental documents.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-2054, fax 202-366-3409

Department of Transportation Final Environmental Justice Strategy

Author: US Department of Transportation

Supporting Organization(s)/Contact: US DOT

Publication Year: 1995

Media: Printed Material

Key Words: nondiscrimination, environmental justice, civil rights, Title VI, NEPA, health effects, environmental effects, research and development, public involvement

Abstract: Executive Order 12898 on environmental justice required each executive department to develop a strategy for implementing its responsibilities under the executive order. This document lays out how the DOT will utilize policies, outreach, research and development, and training to ensure that environmental justice issues are given appropriate attention in the activities of the department.

Ordering Information:

Ira Laster 202-366-4859

Department of Transportation Proposed Order to Address Environmental Justice in Minority Populations and Low-Income Populations

Author: US Department of Transportation

Supporting Organization(s)/Contact: US DOT

Publication Year: 1995

Media: Printed Material

Key Words: nondiscrimination, environmental justice, civil rights, Title VI, NEPA, health effects, environmental effects, research and development, public involvement

Abstract: The DOT published for public comment this draft order that lays out internal procedures for implementing Executive Order 12898, Environmental Justice. This draft order lays out a process that would require each of the operating administrations to develop additional implementing guidance specific to its programs, policies, and activities. It also spells out a framework for identifying and addressing health and environmental effects that disproportionately affect minority and low-income populations.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-0106

Eligibility of Historic Preservation Work for Transportation Enhancement Funding

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1995

Media: Printed Material

Key Words: transportation enhancements, eligibility, transportation linkage, historic preservation

Abstract: This memorandum reiterates prior guidance that states that in order to be eligible for transportation enhancement funding, historic preservation work must be directly related to the intermodal transportation system. It goes on to state that the transportation linkage must be substantial.

Ordering Information:

FHWA, Office of Environment and Planning, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-2054, fax 202-366-3409

Environmental and Planning Programs Stewardship Information

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1993

Media: Printed Material

Key Words: stewardship, environment, planning, NEPA

Abstract: This memorandum from the Director of the Office of Environment and Planning, transmits information on the formal agency position on stewardship roles and responsibilities of our field offices for carrying out the requirements of the National Environmental Policy Act (NEPA) of 1969. The memorandum stresses that although oversight activities for FHWA programs are undergoing changes, no legislation has been enacted that diminishes the agency responsibility to administer the provisions of NEPA and related environmental laws.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-2054, fax 202-366-3409

Environmental Flowcharts

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1996

Media: Printed Material and Electronic Media

Key Words: flowcharts, environmental, air quality, endangered species, coordination, historic preservation, socioeconomic impact, water quality, wetlands, highway traffic noise

Abstract: The purpose of this document is to provide assistance with some of the environmental requirements and approval procedures required for federal-aid projects. It is an easy to follow flowchart that guides the reader through some of the environmental processes involved in transportation planning. The flowcharts are organized alphabetically based on a particular environmental resource.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Pat Cazenias 202-366-4085

Environmental Policy Statement

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1994

Media: Printed Material

Key Words: environment, policy

Abstract: In this policy statement, FHWA emphasizes its commitment to incorporating environmental stewardship into all policies, procedures, and decisions. This statement of policy is a formal commitment to the protection and enhancement of our environment. We mean not only the natural environment, but the built environment, as well as the cultural and social environment of our country and neighborhoods and the quality of life for the people that live there. This policy statement brings together the processes

necessary to produce a quality of life enhanced not only by economic security and natural resources, but by community values allowing all citizens access to safe, comfortable, and efficient transportation.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-4093

Environmental Programs and Provisions of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1992

Media: Printed Material

Key Words: ISTEA, environment

Abstract: This short promotional brochure describes the provisions of ISTEA that strengthen the emphasis on the environmental aspects of transportation decisions. ISTEA led to major changes in the federal-aid highway and transit programs that help state and local governments meet the requirements of the CAA, restore and protect wetlands, and finance a variety of transportation enhancements.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-6724

Environmental Programs Stewardship Related to Quarterly Obligations

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1993

Media: Printed Material

Key Words: quarterly, obligations, stewardship, environment, NEPA

Abstract: Memorandum from the Chief, Environmental Operations Division of the Office of Environment and Planning, transmitting information on the formal agency position on environmental program stewardship and FHWA roles and responsibilities relating to quarterly obligations of surface transportation funds. The memorandum addresses the timing of completion of NEPA requirements in relation to the processing of the quarterly obligations.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-2054, fax 202-366-3409

FHWA/FTA Interim Policy on Public Involvement and FHWA/FTA Questions and Answers on Public Involvement in Transportation Decisionmaking — FHWA/FTA Policy and Guidance on Public Involvement

Author: Federal Highway Administration and Federal Transit Administration

Supporting Organization(s)/Contact: FHWA, Florence W. Mills 202-366-2062, FTA, Joe Ossi 202-366-0096

Publication Year: 1994

Media: Printed Material

Key Words: public involvement, citizen participation, transportation planning, NEPA, public meeting, public hearing, ISTEA

Abstract: FHWA and FTA jointly committed as agency policy to aggressively support proactive public involvement in all stages of transportation planning and project development. There are eight specific policy commitments. The questions and answers provide technical information on 14 public involvement issues under ISTEA and the FHWA/FTA Joint Planning Regulations.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590

Guidance on the Development of Logical Project Termini

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1993

Media: Printed Material

Key Words: segmentation, independent utility, logical project termini, future alternatives

Abstract: Memorandum from the Director of the Office of Environment and Planning transmitting the formal agency position regarding the principles of logical project termini and independent utility. The memorandum also discusses the policy of not restricting consideration of alternatives for other reasonably foreseeable future improvements, as contained in FHWA's environmental regulations (23 CFR 771.111(f)).

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-2054, fax 202-366-3409

Guidelines for the Development of Wetland Mitigation Areas

Author: T. Denbow, et al.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1996

Media: Printed Material

Key Words: wetlands, mitigation, establishment, highways, management, construction, design, planning, monitoring, materials

Abstract: This is a manual that provides guidance and information on techniques, procedures, and materials to design, plan, construct and monitor wetlands. It covers soil, hydrology, vegetation, site modifications, problem correction, design requirements and construction management.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067

Implementing Transit-Based Residential Development in the United States (Applied Research)

Author: Institute of Urban and Regional Development, University of California at Berkeley

Supporting Organization(s)/Contact: FTA, Effie Stallsmith 202-366-5653

Publication Year: 1996

Media: Printed Material

Key Words: livable communities, transit-oriented development

Abstract: This working paper follows an earlier research effort on the forms of transit-based residential development. This project of applied research with three transit agencies focused on identifying opportunities and barriers, preparation of implementation strategies, participatory sessions with private sector firms and transit agencies to explore

opportunities, and analysis of obstacles and recommendations for implementing transit-based development.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, (TPL-21), Room 6100, Washington, DC 20590, Effie S. Stallsmith (mailing label requested)

Integrating Environmental Considerations Into Transportation Planning Proceedings

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1994

Media: Printed Material

Key Words: planning, proceedings

Abstract: In response to the new planning requirements of ISTEA and the desire to strengthen linkages between and within the transportation planning and project development processes relating to environmental considerations, FHWA conducted a national conference on October 25-27, 1994. Conference participants included planners and environmental professionals from FHWA and FTA offices at all levels, state DOTs, MPOs, state and federal regulatory and resource agencies, environmental advocacy groups, and consultants doing work in transportation. The conference combined panels of experts discussing policy issues, presentations by practitioners of exemplary projects and processes, and workshops to identify issues and develop solutions to the challenges of integrating environmental considerations into the planning process. Proceedings of the conference were produced and made available to participants before they left the conference. Copies of the proceedings are available from FHWA.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-2054, fax 202-366-3409

Interim Guidance on Applying Section 4(f) on Transportation Enhancement Projects and National Recreational Trails Projects

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1994

Media: Printed Material

Key Words: Section 4(f), interim guidance, transportation enhancement, national recreational trails

Abstract: This memorandum from the Director of the Office of Environment and Planning provides interim guidance on the application or nonapplication of Section 4(f) to transportation enhancement or national recreational trail projects.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-1598, fax 202-366-3409

Joint Development Entrepreneurial Study

Author: Bay Area Rapid Transit District

Supporting Organization(s)/Contact: FTA, Effie Stallsmith 202-366-5653

Publication Year: 1996

Media: Printed Material

Key Words: land use, joint development, livable communities

Abstract: This report is based on a national survey and follow-up of joint development institutional arrangements. In addition the report includes a review of BART's past joint development

experiences and a comparative analysis of the statutory legislation of BART and other California transit agencies.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, (TPL-21), Room 6100, Washington, DC 20590, Effie S. Stallsmith (mailing label requested)

Joint Memorandum on Implementation of the Intermodal Surface Transportation Act

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1992

Media: Printed Material

Key Words: ISTEA, NEPA/404 Merger, common elements, Section 404

Abstract: This memorandum from the Executive Director of FHWA transmits a joint DOT and EPA policy emphasizing the development of procedures for merging the common elements of the NEPA and Section 404 processes.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-2054, fax 202-366-3409

Nondiscrimination, Environmental Justice, and Community Impact Assessment in Planning and Project Development

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1995

Media: Printed Material

Key Words: nondiscrimination, environmental justice, civil rights, Title VI, NEPA, community impacts, public involvement, planning, project development

Abstract: This memorandum highlights and synthesizes longstanding FHWA policy regarding ensuring that planning and project development activities are conducted in a way that prevents discrimination and identifies and addresses consequences that potentially fall disproportionately on one segment of society.

Ordering Information:

FHWA, Office of Environment and Planning, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-0106

On the Right Track

Author: Tri-Met, Portland, OR

Supporting Organization(s)/Contact: FTA, Effie Stallsmith 202-366-5653

Publication Year: 1995

Media: Video

Key Words: land use, rail, growth management, livable communities

Abstract: This video highlights success of light rail and the transit mall in the Portland metropolitan area and the overall benefits Oregon has experienced with extensive land use planning and urban growth strategies.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, (TPL-21), Room 6100, Washington, DC 20590, Effie S. Stallsmith (mailing label requested)

Position Paper on Secondary and Cumulative Impact Assessment

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1992 **Media:** Printed Material

Key Words: secondary, cumulative, impacts, position paper

Abstract: FHWA policy paper that addresses secondary and cumulative effects of transportation projects and suggests possible “rules-of-thumb” to incorporate consideration into the project development process. While not suggesting a particular approach or concept, the paper approaches the subject with general analytic outlines and offers ways that an agency could integrate its own specific assessment techniques into project decision making.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-2054, fax 202-366-3409

Sourcebook on Transit-Related Environmental Regulations

Author: EG&G Dynatrend

Supporting Organization(s)/Contact: FTA (TPL-22)

Publication Year: 1994 **Media:** Printed Material

Key Words: emissions, tires, runoff, hazardous waste

Abstract: Provides transit agency staff with a comprehensive description of the major environmental requirements that may affect its acquisition and maintenance of transit vehicles and facilities. Sections of the sourcebook cover vehicle emission reduction programs, bus and support vehicle tires, CFCs and vehicle A/C systems, control of stormwater runoff, control of hazardous wastes, underground storage tanks, asbestos and lead-based paint removal, and hazardous waste in the right-of-way.

Ordering Information:

FTA, Brian Jackson, fax 202-493-2478

Summary of Environmental Legislation

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1996 **Media:** Printed Material and Electronic Media

Key Words: environmental statutes, transportation, health, historical and archeological preservation, land and water usage, noise, air quality

Abstract: This document is a general guideline for information on the purposes and general procedures that are required to fulfill the environmental legislative requirements affecting transportation. This document is a ready-reference listing of pertinent environmental requirements and is organized alphabetically based on a particular environmental area.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Pat Cazenias 202-366-4085

The Federal Highway Administration as a Wetland Mitigation Bank User

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1995

Media: Printed Material

Key Words: wetlands mitigation bank, federal-aid funds, policy, highways

Abstract: This is a paper presented at the Department of Energy Wetlands Mitigation Banking Workshop in Washington, DC, in June 1995. It explains FHWA regulations, policy and procedures relative to the eligibility of wetland mitigation banks for federal-aid highway funds. It also explains the construction programs of the ISTEA under which wetlands planning and mitigation qualify as eligible for federal funding.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067

Transportation Enhancement Conference Notebook

Author: Workshop sponsors (14 organizations)

Supporting Organization(s)/Contact: FHWA

Publication Year: 1994

Media: Printed Material

Key Words: transportation enhancements, eligibility, planning, programming, project implementation, project selection, funding

Abstract: The workshop notebook includes a series of issue papers developed to stimulate discussion during small group sessions. It also includes a status report on the implementation of transportation enhancements, including a state-by-state summary.

Ordering Information:

FHWA, Office of Environment and Planning, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-3409

Use of Private Wetland Mitigation Banks Memorandum

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division, Right-of-Way Division

Publication Year: 1995

Media: Electronic Media and Printed Material

Key Words: private wetland bank, mitigation, Uniform Act, federal-aid

Abstract: This guidance clarifies FHWA policy regarding the application of Uniform Act requirements to acquisition of interests in private wetland mitigation banks using federal-aid highway funds.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Paul Garrett 202-366-2067

Water Quality Action Plans Memorandum

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Environmental Analysis Division

Publication Year: 1996

Media: Printed Material

Key Words: water quality

Abstract: This guidance is recommended as a general outline of provisions that may be considered when developing a water quality action plan involving FHWA and other cooperating agencies, such as EPA, state environmental agencies and other resource agencies. FHWA has identified water quality as one of the elements under Objective Number 1, Environmental Goal of our National Strategic Work Plan. Our objective is to develop initiatives in cooperation with resource agencies that protect and enhance our natural environment. This guidance outlines six areas in which to develop plans: initiate procedures to identify broad-based water quality issues, promote and support coordination of monitoring measures, exchange information and technical assistance, assign responsibilities, ensure compliance and enforcement and implement plans. The water quality action plan's framework will integrate water quality issues and other environmental considerations into the planning, design, operation, and maintenance of transportation programs and projects on a watershed management scale.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Pat Cazenias 202-366-4085

PRODUCT LISTING

TRANSPORTATION FINANCE — TECHNICAL

Cash Management Best Practices Guide

Author: Roger Figura and Rachel Jones

Supporting Organization(s)/Contact: FTA, Nancy Strine 202-366-4984

Publication Year: 1996

Media: Printed Material

Key Words: cash management, investment policies, forecasting, budgeting

Abstract: KPMG conducted on-site interviews with eight transit agencies to assess cash management procedures. During the course of the on-site visits, KPMG performed in-depth reviews of investment policies and procedures, banking relations, forecasting and budgeting, cash and fare media collection procedures, provision for benefit accruals; and planning with respect to FTA, FHWA, and ISTEA requirements. The best practices described in this Cash Management-Best Practices Guide represents a collection and amalgamation of policies and procedures from the transit agencies which participated in the on-site reviews.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Nancy Strine 202-366-4984

Experiences in Overcoming Federal, State, and Local Legislative/Administrative Barriers to Implementing Public-Private Highway Projects

Author: Price Waterhouse

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Bill Marley 202-366-5009

Publication Year: 1993

Media: Printed Material

Key Words: public-private agreement, risk/reward, rate of return, tort liability, public oversight, point-of-contact, contract, right-of-way, negotiation

Abstract: The report contains a 6-page summary and detailed documentation for 12 particular projects. The detailed documentation includes a discussion on each barrier to implementation, including efforts to overcome the barriers. The conclusions cite several "lessons learned" that describe the importance of cooperation, coordination, and active project-level support among the private sponsor, government, and the general public.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Bill Marley

Financial Planning and Programming for MPOs (NHI Course Number 9402)

Author: National Transit Institute

Supporting Organization(s)/Contact: FTA, Nancy Strine 202-366-4984

Publication Year: 1995

Media: Course

Key Words: financial planning

Abstract: This 3-day course addresses the financial planning requirements of ISTEA and the FTA/FHWA metropolitan and statewide planning regulations. Presentations, group exercises, and discussion are used to give participants a basic understanding of federal laws and regulations on financially constrained plans and Transportation Improvement Program

(TIP), federal funding programs and their inherent flexibilities and eligibility requirements, fundamentals of financial analysis and planning, basic methods for cost estimation and revenue forecasting, and techniques for checking the reasonableness of estimates and forecasts developed by others. This course is a companion to NHI course Number 15256, "Innovative Highway Financing and Elements of Financial Planning: Technical Methodologies."

Ordering Information:

NTI, Neal Denno 908-932-1700

Financial Planning in ISTEA for MPO Staff

Author: Chris Wornum, Cambridge Systematics, Inc., et al.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Martin Weiss 202-366-5010

Publication Year: 1995

Media: Printed Material

Key Words: financial planning, MPO planning, fiscal constraint, TIP

Abstract: One of the primary purposes of the study that resulted in the report was to help MPOs meet the fiscal constraint requirements of ISTEA. Another purpose was to help the FHWA understand the results of ISTEA and planning regulations on the general subject. During the study, MPO staff officials in nine MPOs were interviewed with respect to their experiences, successes, difficulties, methodologies, and insights regarding their financial planning activities. Twelve case studies were documented (six TIPs and six plans).

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Martin Weiss

Financial Planning Software

Author: GFRC

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Bill Marley 202-366-5009

Publication Year: 1994

Media: Electronic Media

Key Words: economic variable, policy variable, forecasting, transportation improvement plan, land use, trip generation, assessed valuation, bonding, debt financing

Abstract: This software uses simplified planning situations and is useful for sketch planning purposes. The software is taught as a part of the course Technical Methodologies For Financial Planning. Individuals who have extensive experience with dBase-type application programs and pull-down menus and who have extensive knowledge of special assessment districts, impact fees, toll facilities, and revenue and expenditure forecasting techniques will likely be able to use the software programs without special instruction.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Bill Marley

How to Pass a Local Option Tax for Financing Transportation Projects

Author: Elbert Bishop, EBA, Inc.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Bill Marley 202-366-5009

Publication Year: 1995

Media: Printed Material

Key Words: sales tax, gas tax, referendum, earmarking, special interest group, ballot, authorizing legislation, jurisdictional disparity

Abstract: This report presents findings that identify and characterize the principal factors that contribute to the success of a local option tax referendum. The abstract of the report states: "While there are many individual factors that contribute to success of a referendum, effective planning encompasses most of them. Creativity in addressing local issues and circumstances is also associated with many of the most successful referenda."

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Bill Marley

Impact of Local Option Highway Taxes on State Highway Programming and Aid

Author: Elbert Bishop, EBA, Inc.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Bill Marley 202-366-5009

Publication Year: 1993

Media: Printed Material

Key Words: fiscal substitution, leveraging, earmarking, use of tax, project list

Abstract: The report contains a 12-page executive summary and detailed documentation on the subject in 6 states (Arizona, California, Florida, Georgia, Alabama and Missouri). The executive summary of the report states: "The principal objective of this study is to test the hypothesis that implementing local option taxes for highway improvements leads, directly or indirectly, to a decrease in federal and state aid for highway improvements . . . Our general conclusion is that state and federal aid did not change in response to adoption of local option taxes."

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Bill Marley

Major Investment Studies (NHI Course Number 9401)

Author: National Transit Institute

Supporting Organization(s)/Contact: FTA, Donald Emerson 202-366-0096

Publication Year: 1995

Media: Course

Key Words: MIS, travel forecasting, cost estimating, financial analysis

Abstract: This 3-day course is designed to help states, transit operators, and metropolitan planning organizations carry out the planning requirements for major metropolitan transportation investments. Designed for the study manager, the course provides an overview of the procedural and technical aspects of major investment studies. Topics covered in lectures, group discussions and workshops include: the reasons for doing a Major Investment Study (MIS), the relationship of the MIS to the planning and environmental processes, the identification and evaluation of alternatives, travel forecasting, cost estimating, environmental analysis, financial analysis, and study management.

Ordering Information:

NTI, Linda Howe 908-932-1700

Technical Methodologies for Financial Planning

Author: GFRC

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Bill Marley 202-366-5009

Publication Year: 1996

Media: Course, Printed Material

Key Words: revenue potential; project potential; legal, regulatory, political, and administrative issues; debt issuance; bonding; revenue forecasting; expenditure forecasting

Abstract: This is a 2-day course that discusses five types of technical methodologies for highway financial planning: public/private agreements, impact fees, special assessment districts, toll projects, and local option taxes. In addition, the course incorporates computer workshops that use public domain software related to special assessment districts, impact fees, toll rates, and revenue and expenditure forecasts.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Bill Marley

Usefulness of Financial Plans to MPO Policy Board

Author: EBA, Inc., Elbert Biship, et al.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Martin Weiss 202-366-5010

Publication Year: 1996

Media: Printed Material

Key Words: financial planning, MPO policy board

Abstract: The objective of this report was to obtain the views of elected and appointed officials of the MPOs, on the usefulness of the financial planning requirements of ISTEA and ensuing regulations on the subject. Through a series of guided interviews, problems arising from the general area are discussed based on interviews with officials in three MPOs.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Martin Weiss

PRODUCT LISTING

GENERAL PLANNING — POLICY/GUIDANCE

Planning and Environmental Training Catalogue

Author: Federal Highway Administration/Federal Transit Administration

Supporting Organization(s)/Contact: FHWA, FTA

Publication Year: 1995 **Media:** Printed Material

Key Words: training; transportation planning, environment

Abstract: This document serves as a catalogue for those persons interested in gaining a better understanding of transportation planning procedures through a series of training courses focusing on the environmental and planning aspects utilized within the transportation planning community. The catalogue also provides information on courses and registration for training. The training covers a variety of planning and environmental-related topics including: travel demand forecasting; project traffic forecasting; transportation planning for air quality analysis; congestion and intermodal systems; access management and promoting improved planning partnerships; and others.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson, fax 202-493-2478

Proceedings of National Conference on Transportation Programming Methods and Issues

Author: Transportation Research Board

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Bob Gorman 202-366-5001

Publication Year: 1996 **Media:** Printed Material

Key Words: transportation programming, transportation project prioritization

Abstract: A national conference on transportation programming methods and issues was held in Irvine, CA, in December 1995. The conference was sponsored by both FHWA and FTA, who contracted with TRB to conduct the conference. The main purpose of the conference was to bring together government and academic leaders and other interested parties dealing with programming decisions to share their perspectives on:

1. The emerging issues confronting program decisions and how programming methods have changed in response to these new forces
2. Current and new approaches to programming, including institutional, process and technical aspects
3. Steps required to address the emerging issues, including a research agenda that practitioners could use.

Topics discussed included: integration of long-range plans and STIPs/TIPs, State and MPO coordination, air-quality concerns, financial constraints, performance and measures.

Ordering Information:

Transportation Research Board, 2101 Constitution Ave., Washington, DC 20418

Revised Congestion Mitigation and Air Quality Improvement Program (CMAQ)

Author: FHWA

Supporting Organization(s)/Contact: Federal Highway Administration; Federal Transit Administration

Publication Year: 1995

Media: Printed Material

Key Words: operating assistance; public education and marketing; attainment deadline restrictions

Abstract: This document, initially, was presented at a national teleconference on July 13, 1995, to announce the new CMAQ guidance as well as discuss recent experience with transportation control measures (TCMs). A sample of the topics that are discussed in this document include:

- Maintenance areas
- Attainment deadline restrictions
- Operating assistance
- Public education and marketing
- Experimental pilot projects
- Fare/fee subsidy programs
- Expanded eligibility for vehicle I/M programs
- Expanded funding for TMAs
- Transit vehicles

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590

Working Together on Transportation Planning: An Approach to Collaborative Decision Making

Author: National Civic League and National Association of Regional Councils

Supporting Organization(s)/Contact: FTA, Office of Policy

Publication Year: 1995

Media: Printed Material

Key Words: public involvement, agency coordination

Abstract: Presents a recommended approach to the use of public involvement and agency coordination in the MPO decision-making process. Highlights ISTEA requirements pertinent to MPO planning, strategies for eliciting effective public involvement (PI), challenges in making collaboration work and institutionalizing the collaborative approach, and the evaluation of PI programs.

Ordering Information:

NTIS PB-95-236659

PRODUCT LISTING

GENERAL PLANNING — TECHNICAL

Application of Geographic Information System for Transportation (NHI Course Number 15129)

Author: GIS/Trans Ltd.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Roger Petzold 202-366-4074

Publication Year: 1996

Media: Course, Printed Material and Electronic Media

Key Words: GIS, information system, planning

Abstract: This notebook for NHI Course Number 15129, Application of Geographic Information System for Transportation, is 180 pages long and contains all presentation material. Its topics include: (1) Introduction to GIS for Transportation, (2) Concept and Tools, (3) Transportation Applications and (4) Implementation of GIS in a Transportation Organization. The course material is currently being updated, and a new course will be available in Fall 1996.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Roger Petzold 202-366-4074

Development of Integrated Transportation Information System (ITIS): Practitioners Handbook

Author: GIS/Trans LTD

Supporting Organization(s)/Contact: FHWA, Office of Technology Applications, Office of Environment and Planning, Roger Petzold 202-366-4074

Publication Year: 1996

Media: Printed Material

Key Words: information management, geographic information system, transportation, integrated transportation information system, information system

Abstract: This handbook addresses how to implement an ITIS. It includes specific steps to take to implement an ITIS and provides specific case studies. Principal points made in the handbook include:

1. An organization's ability to meet its objectives is directly related to the performance of its information system.
2. Managers must understand information technology well enough to understand its potential to transform the way they do business.
3. The role of the transportation agencies is changing from a primary involvement in engineering and construction to the provision of a wide range of transportation-related services to many sectors of society. The quality of those services is now measured by the timeliness, accuracy and usefulness of the information thus provided.

This handbook provides a vision of how to implement the ITIS and move into the information age.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Roger Petzold 202-366-4074

Geographic Information System for Transportation Symposium, Proceedings 1996

Author: AASHTO, Missouri DOT, Wisconsin DOT, California DOT

Supporting Organization(s)/Contact: AASHTO; FHWA, Office of Environment and Planning,
Intermodal and Statewide Programs Division, Roger Petzold
202-366-4074

Publication Year: 1996

Media: Printed Material

Key Words: GIS, transportation, information management

Abstract: This proceedings report provides the papers that were presented at the Ninth Annual Geographic Information System for Transportation Symposium (GIS-T 96), March 31-April 4, 1996, in Kansas City, MO. The subject areas covered are: linear referencing system, travel demand models, data collection methodologies, data migration, safety, GIS for planning and management of transit system, GPS, system architecture, client server computing, transportation applications, GIS tools, technology trends, field data, acquisition and national frame issues identified by the Federal Geographic Data Committee (FGDC).

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Roger Petzold 202-366-4074

Geographic Information System for Transportation Symposium, Summary Report 1995

Author: AASHTO, Nevada Department of Transportation

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and
Statewide Programs Division, Roger Petzold 202-366-4074

Publication Year: 1995

Media: Printed Material

Key Words: transportation, GIS, information management

Abstract: This document is a summary of the Eighth Annual Geographic Information System for Transportation (GIS-T 95) Symposium and Workshop held in Sparks, Nevada April 2-5, 1995. The symposium focused on the opportunities for application of GIS technology to transportation agencies and the problems they face. The symposium offers (1) education, (2) information sharing between transportation organizations, (3) vendor displays of current technology available and (4) information on specific applications. This 20-page document contains a summary of major activities and issues that need to be addressed, as well as a list of state contacts.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Roger Petzold 202-366-4074

Geographic Information System for Transportation Symposium, Proceedings 1995

Author: AASHTO, Nevada DOT, Wisconsin DOT

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and
Statewide Programs Division, Roger Petzold 202-366-4074

Publication Year: 1995

Media: Printed Material

Key Words: transportation, GIS, information management

Abstract: This document is a compendium of 38 of the papers presented at the Eighth Annual Symposium on Geographic Information Systems for Transportation (GIS-T 95) which was held April 2-5, 1995, in Sparks, NV. The papers in the proceedings are arranged in five sections:

1. Spatial data and processing requirements
2. Spatial data creation and conversion
3. Integrating GIS into an organization
4. Management system and applications in GIS
5. GIS-T technology trends and specifications.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Roger Petzold 202-366-4074

Geographic Information System for Transportation Symposium, Summary Report 1996

Author: AASHTO/Missouri Department of Transportation/Wisconsin Department of Transportation

Supporting Organization(s)/Contact: AASHTO/FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Roger Petzold 202-366-4074

Publication Year: 1996

Media: Printed Material

Key Words: GIS, transportation, information management

Abstract: This summary report provides an overview of the activities that took place at the Ninth Annual Geographic Information System for Transportation Symposium (GIS-T 96), March 31-April 4, 1996. The proceedings include the following topics: (1) background, (2) overview of symposium, (3) subjects covered during the symposium and (4) a list of major GIS transportation issues. The subject areas covered are: linear referencing system, travel demand models, data collection methodologies, data migration, safety, GIS for planning and management of transit system, GPS, system architecture, client server computing, transportation applications, GIS tools, technology trends, field data, acquisition, and national frame issues identified by the Federal Geographic Data Committee (FGDC).

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Roger Petzold 202-366-4074

Innovations in Public Involvement in Transportation Planning

Author: Federal Highway Administration; Federal Transit Administration

Supporting Organization(s)/Contact: FHWA; FTA

Publication Year: 1995

Media: Printed Material

Key Words: decisionmaking, transportation planning, citizen participation

Abstract: This publication outlines the fundamental techniques, along with the advantages or drawbacks, their potential applications and special uses, their utility to agencies and citizens, and the resource requirements needed to design and implement effective public involvement processes.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590

Integrating Transportation Information, Demonstration Project 113

Author: GIS/Trans Ltd.

Supporting Organization(s)/Contact: FHWA, Office of Technology Applications, Office of Environment and Planning, Roger Petzold 202-366-4074

Publication Year: 1996

Media: Print Material and Electronic Media

Key Words: information management, GIS, video imagery

Abstract: This is the course notebook for Demonstration Project 113, Integrating of Transportation Information. The purpose of the course is to focus on the importance of information to transportation and the need to view information as a valuable resource that must be carefully managed. This material introduces the concept of an integrated transportation information system (ITIS) and basic principles of information management. In addition, it reviews specific transportation applications and outlines how an organization can develop an implementation plan.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Roger Petzold 202-366-4074

Integrating Transportation Information Systems: A Manager's Handbook

Author: David Fletcher, Mike Bacon

Supporting Organization(s)/Contact: FHWA, Office of Technology Applications, Office of Environment and Planning, Roger Petzold

Publication Year: 1995

Media: Printed Material

Key Words: GIS, information management, planning

Abstract: This handbook provides a new vision for ITIS and provides a framework that is intended to guide the transportation manager in defining and managing the next generation of transportation computing. The tools and methods described in this handbook are now available to aid in development of a strategic framework, while preserving investments in existing information systems. New roles for both managers and system professionals will be defined.

This handbook also contains a series of questions that will assist transportation managers in assessing the current status of activities related to their information systems. Managers who respond affirmatively to these questions are well along the way to realizing an ITIS. Those who are unable to respond or who are forced to respond negatively will find the framework presented in this handbook to be a valuable starting point for defining the next generation of ITIS.

Ordering Information:

Publication Number FHWA-SA-96-024, FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Roger Petzold 202-366-4074

Intermodal Technical Assistance for Transportation Planners and Policymakers

Author: US Department of Transportation

Supporting Organization(s)/Contact: US DOT, Office of the Secretary, Office of Intermodalism

Publication Year: 1994

Media: Printed Material

Key Words: technical assistance, policy, ISTEA, CAAA

Abstract: This resource document, updated and expanded since the first publication in 1993, provides information on intermodal technical assistance activities supported by the Department. It describes available tools - (i.e., studies, conferences, courses, reports, data,

and quantitative methods, etc.) that can help planners and policymakers respond to the requirements of ISTEA and CAAA.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson

ISTEA Management Systems for Transit Operators (NHI Course Number 9403)

Author: National Transit Institute

Supporting Organization(s)/Contact: FTA, Sean Libberton 202-366-0055

Publication Year: Spring 1997 **Media:** Course

Key Words: management systems, PTMS, CMS, IMS, transit

Abstract: FTA and NTI are planning a series of regional conferences/workshops focusing on the role that transit operators have in the development and utilization of ISTEA management systems. Topics to be covered include how transit can benefit from the systems; development of transit-sensitive performance measures for use in the CMS; sources of data for PTMS, CMS, and IMS; and system integration issues.

Ordering Information:

NTI, Sean Libberton 202-366-0055

National Highway Planning Network 2.02

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division

Publication Year: 1996 **Media:** Electronic Media and 8mm Tape

Key Words: National Highway Planning Network (NHPN), national highway system (NHS)

Abstract: The NHPNV2 is the cornerstone of the FHWA GIS. It is the platform on which state linear referencing systems will be mounted to be used to properly locate attribute data. The NHPNV2 is a 420,000-mile, centerline network representing rural arterial, urban principal arterial, and remaining national highway system mileage plus connectors to major intermodal facilities.

Ordering Information:

FHWA, 400 7th Street SW, (HEP-10), Washington, DC 20590, Mark Bradford 202-366-6810

Data can also be obtained electronically: for www: <http://www.dot.gov>; for gopher: <gopher.dot.gov>; for ftp: <ftp.dot.gov>

Planning and Environmental Training Catalogue

Author: Federal Transit Administration and Federal Highway Administration

Supporting Organization(s)/Contact: FTA, Office of Planning; FHWA, Office of Environment and Planning

Publication Year: 1995 **Media:** Printed Material

Key Words: training, environmental training, planning training, NHI, NTI, courses

Abstract: Provides listing of FTA and FHWA-sponsored environmental and planning training.

Ordering Information:

FTA, Brian Jackson, fax 202-493-2478

Potential for Geographic Information System for Transportation: An Overview

Author: Roger Petzold, Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Roger Petzold 202-366-4074

Publication Year: 1994

Media: Printed Material

Key Words: GIS, transportation, information system

Abstract: Governments at all levels are faced with an ever-increasing demand for information to support improved decision-making throughout their organizations, from broad planning and management to individual projects. Broad environment, social and economic problems that are faced by society today require data sharing and cooperation among multiple government agencies at all levels. This paper reviews four applications of GIS for transportation:

- 1) Development of the National Highway System in the United States,
- 2) California's intermodal management system,
- 3) Wisconsin DOT's pavement management system and
- 4) Columbia, MO, planning applications.

In general the paper reviews basic costs and benefits. The conclusion drawn is that a GIS is a powerful tool for transportation but it must be planned and constructed carefully. A long-term decision must be made to invest in the technology and view the information as a resource.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Roger Petzold 202-366-4074

Probabilistic Risk Analysis for Turnkey Construction: a Case Study

Author: Victoria Chaney, Kathryn Derr, Bibi Rawoof, & Jessica Weissman, of Abacus Technology Corporation and Ali Touran, Ph.D., P.E.

Supporting Organization(s)/Contact: Federal Transit Administration, Nancy Strine 202-366-8051

Publication Year: 1996

Media: Printed Material

Key Words: planning, probabilistic risk analysis, Turnkey Demonstration Program, design-build, construction risk, risk communication, risk diversification

Abstract: This study employed two case study participants, (1) Tinker Air Force Base Extend Alternate Runway, and (2) the Maryland Mass Transit Authority (MTA) Central Light Rail Phase II project, to demonstrate how the probabilistic method, an innovative statistical technique, can be helpful in performing risk analysis for turnkey capital transit projects. Impetus for the study was provided by the FTA's Turnkey Demonstration Program. The study observes that for the turnkey construction alternative, probabilistic risk analysis is best performed during the bid phase of the project.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Nancy Strine

Public Involvement Techniques for Transportation Decisionmaking

Author: Federal Highway Administration and Federal Transit Administration

Supporting Organization(s)/Contact: FHWA, Florence W. Mills 202-366-2062; FTA, Joe Ossi 202-366-0096

Publication Year: 1996

Media: Printed Material

Key Words: public involvement, citizen participation, transportation planning, NEPA

Abstract: An expanded collection of short descriptions of 37 public involvement techniques or groups of related techniques, including all techniques in "Innovations in Public Involvement for Transportation Planning." Includes initial steps to implement groups of related techniques.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590

PRODUCT LISTING

STATEWIDE PLANNING — POLICY/GUIDANCE

Examples of Statewide Transportation Planning Practices

Author: Balloffet and Associates, Inc.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Dee Spann 202-366-4086

Publication Year: 1995

Media: Printed Material

Key Words: best practices, examples, statewide planning, transportation planning

Abstract: This document provides two to three examples of what various states have done to implement each of the major aspects and components of the statewide transportation planning process. This document was done while most states were still in the process of completing their first statewide plans; therefore, it documents work-in-progress rather than completed work in many instances.

Ordering Information:

Report Number FHWA-PD-95-018, FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Dee Spann 202-366-4086

Statewide Planning and Metropolitan Planning: Rule

Author: FHWA

Supporting Organization(s)/Contact: FHWA, FTA

Publication Year:

Media: Printed Material

Key Words: metropolitan transportation planning/programming, eligibility, federal highway/transit funds

Abstract: This document provides assistance to MPOs, federal, State and local transportation planners in meeting the provisions of ISTEA. These requirements mandate the significance of statewide and metropolitan transportation planning and programming and the eligibility of metropolitan areas and states for federal highway and transit funds.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson, fax 202-493-2478

Statewide Transportation Planning Under ISTEA: A New Framework for Decision Making

Author: Sarah J. Siwek and Associates

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Dee Spann 202-366-4086

Publication Year: 1996

Media: Printed Material

Key Words: statewide planning, decision making

Abstract: This document serves as an easy-to-read guide for decision-makers and others who need general information about the statewide transportation planning process but not the details.

The document answers such questions as like: Why is statewide planning important? Why is it beneficial? What does ISTEA call for? What are the products of the process? The document is essentially a layman's guide to statewide transportation planning.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590

PRODUCT LISTING

STATEWIDE PLANNING — TECHNICAL

Land Transportation Access to Ports and Marine Terminals

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Lee Chimini, fax 202-366-4068

Publication Year: 1993

Media: Printed Material

Key Words: planning factors, freight, management systems, funding, eligibility, metropolitan planning organizations

Abstract: This brochure is intended to inform the port community, MPOs and state transportation agencies about opportunities within ISTEA to address specific port-related policies and projects. It also provides a strategic focus for ensuring that port projects and plans are considered through the metropolitan and statewide planning programs.

Ordering Information:

Publication No. FHWA-PD-94-007, FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Lee Chimini, fax 202-366-7660

Non-Federal Applications of the Highway Performance Monitoring System

Author: Wilbur Smith Associates

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Programs Division, Jim Gruver 202-366-4045

Publication Year: 1995

Media: Printed Material

Key Words: HPMS, model, performance monitoring, needs assessment

Abstract: This brochure summarizes the Highway Performance Monitoring System Analytical Process. Capabilities of the HPMS AP include: assess base year conditions and performance, forecast highway system needs, simulate highway system conditions, analyze investment strategies, and estimate user costs. Case studies demonstrating practical uses of the software are included.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Jim Gruver

Public Involvement in Transportation Decisionmaking: Effective Techniques and Processes (NHI Course Number 9404)

Author: National Transit Institute

Supporting Organization(s)/Contact: FTA, Paul Verchinski 202-366-2360

Publication Year: 1997

Media: Course

Key Words: public involvement

Abstract: The course will provide an overview of the FTA/FHWA public involvement requirement and will then concentrate on methods of planning a public involvement process tailored to the unique characteristics of a given metropolitan or statewide planning or project

development process. Through a participatory process, participants will be taken through a variety of techniques for proactively involving citizens and special citizen populations in transportation decisionmaking.

Ordering Information:

NTI, Linda Howe 908-932-1700

PRODUCT LISTING

METROPOLITAN PLANNING — POLICY/GUIDANCE

A Guide to Metropolitan Transportation Planning Under ISTEA: How the Pieces Fit Together

Author: Federal Highway Administration, Federal Transit Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning

Publication Year: 1995

Media: Printed Material

Key Words: ISTEA, MPO, transportation conformity, major investment studies, public involvement, transportation planning, CAAAs

Abstract: This report presents an overview of ISTEA metropolitan planning process and how Clean Air Act and EPA transportation conformity requirements interrelate to the state and local transportation planning efforts. Implications of transportation conformity, highway sanctions, and other planning requirements of the CAA and ISTEA are presented in summary form. The report also provides a general overview of the major investment study process, and how it serves to advance intermodal objectives into the metropolitan planning process. Both long-range planning requirements and short-term programming requirements of ISTEA's metropolitan planning regulations are discussed. The ISTEA's six management systems and how these efforts relate back to the transportation planning process are also presented.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, 202-366-4836

An Intergovernmental Relations Consultation and Mitigation Systems Theory Model Addressing Indian Tribal Government Transportation Issues

Author: Otha Burton, FHWA Eisenhower Graduate Research Fellow

Supporting Organization(s)/Contact: Federal Highway Administration

Publication Year: 1995

Media: Printed Material

Key Words: Native Americans, tribal organizations, overland flow, vegetative controls

Abstract: Report discusses a consultation, mitigation guidance, and technical assistance model that represents FHWA's compliance with federal laws and regulations relating to Native American and tribal organization transportation issues. The model is designed to effectively address and enhance transportation planning and implementation through culturally sensitive intergovernmental and interagency collaboration.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-40), Washington, DC 20590, Bruce Eberle 202-366-5004

Capital District (Albany, NY) Case Study - Congestion Management System Development: Task 1 Report

Author: Chris O'Neil and John Poorman, Capital District Transportation Committee

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois 202-366-6072

Publication Year: 1995

Media: Printed Material

Key Words: MPO, TIP, mobility, congestion management, case studies, multi-modal planning

Abstract: Interim experiences with the development and establishment of a congestion management system (CMS) in the Albany, NY area are presented in this report by the region's MPO staff. The report relays early policy and programming experiences, as well as discussions of CMS integration into planning and programming, multi modal activities enhanced by CMS, and public participation. Results will be published in an upcoming Metropolitan Transportation Planning Report.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Conference on Major Investment Studies in Transportation

Author: Howard/Stein-Hudson Associates, Inc.

Supporting Organization(s)/Contact: FTA; FHWA; TRB

Publication Year: 1996 **Media:** Printed Material

Key Words: major investment studies, multimodal, collaboration, public involvement, streamlining

Abstract: Proceedings of a 3-day conference are presented, including presentations and a summary of workshops. Major topics covered are an overview of the MIS process, policy issues related to MIS, planning context, management and institutional issues, and decisionmaking.

Ordering Information:

TRB, Business Office, National Research Council, 2101 Constitution Avenue, NW, Washington, DC 20418, 202-334-3214

Congestion Management Newsletter

Author: Volume II ('96), Cambridge Systematics, Inc. (Laurie Hussey and Bill Schwartz); Volume I ('95), Gary Hawthorn Associates

Supporting Organization(s)/Contact: Metropolitan Planning Division, Monica Francois 202-366-6072

Publication Year: Since January 1995 **Media:** Printed Material

Key Words: congestion, mobility, ITS

Abstract: Four page newsletter, prepared every other month, to share multi modal case studies, research news, training opportunities, and practitioner experiences in the areas of congestion management and mobility enhancement. "Piggy back" distribution is used to maximize resources; primary distribution includes supplements to association journals (such as the ITE Journal and AASHTO journal), and electronic availability.

Ordering Information:

AASHTO Journal; ITE Journal, www address: <http://www.io.com/~itehq/reflib.htm> and FHWA

Electronic Bulletin Board System (FEBBS): 202-366-3175. Select <C>, <D>, <P>, , and for Vol. X, Issue Y, key in: "CNXY"

Congestion Management Resources Listing

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Doug Laird 202-366-5972

Publication Year: 1996 **Media:** Printed Material

Key Words: congestion, congestion management

Abstract: This bi-annual insert to Congestion Management News provides contacts and resources for the effective implementation of congestion management activities within the planning process. Results will be published in an upcoming Metropolitan Transportation Planning Report.

Ordering Information:

See Congestion Management News ordering information.

***Congestion Management System Development Program for the Puget Sound Region:
Final Mid-Term Report***

Author: Nick Roach, Puget Sound Regional Council

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: 1995

Media: Printed Material

Key Words: MPO, mobility, congestion management, case studies, data management, institutional relationships, data

Abstract: Interim experiences with the development and establishment of a congestion management system (CMS) in the Metropolitan Washington region are presented in this report by the area's MPO staff. The report relays policy, programming and technical experiences, as well as discussions of ITS support for data monitoring requirements, and integrating CMS efforts with regional and statewide planning and programming goals. Results will be published in an upcoming Metropolitan Transportation Planning Report.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Congestion Management Systems CD-ROM

Author: Florida Department of Transportation

Supporting Organization(s)/Contact: FHWA, Brian Gardner

Publication Year: Summer 1997 **Media:** Printed Material, Electronic Media

Key Words: congestion management

Abstract: Congestion Management Training Project develops a computer-based aid for communicating CMS-related concepts in an interactive fashion, which is also adaptable to a World Wide Web site.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590, fax 202-366-3713

Developing an Effective Congestion Management System - Report 1: Dallas/Ft. Worth, TX, Case Study

Author: Dan Rocha, North Central Texas Council of Governments

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: 1995

Media: Printed Material

Key Words: MPO, mobility, congestion management, case studies, public involvement

Abstract: Interim experiences with the development and establishment of a congestion management system (CMS) in the Dallas/Ft. Worth area are presented in this report by the region's MPO staff. The report relays early policy and programming experiences, as well as discussions of non-traditional participants in decision making, distributing CMS information to decision makers, and integrating CMS into decision-making. Results will be published in an upcoming Metropolitan Transportation Planning Report.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Efficient Suburban Activity Centers

Author: Calthorpe Associates

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Metropolitan Planning Division, Chimai Ngo 202-366-6539

Publication Year: 1997

Media: Printed Material

Key Words: land use, urban design, transit-oriented development, travel demand management

Abstract: Develop handbook on retrofitting techniques to make activity centers transportation efficient through strategic site design improvements. Will include prototype site designs, zoning instruments, parking regulations, travel demand reduction ordinances, etc. Will demonstrate application of techniques at case study sites.

Handbook and final report:

- (1) Synthesis of literature/ institutional review,
- (2) Report on survey of exemplary developments;
- (3) Prototype designs and guidelines for maximizing feasibility of implementation;
- (4) Handbook;
- (5) Report on case study application of guidelines.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590, fax 202-366-3713

Flexible Funding Opportunities for Transportation Investments

Author: Federal Transit Administration, Sean Libberton, TPL-11

Supporting Organization(s)/Contact: FHWA, FTA

Publication Year: 1996

Media: Printed Material

Key Words: ISTEA; flexible funding, public involvement, major investment studies

Abstract: This document serves as an informational guide to outlining the provisions and options available under ISTEA. In addition, this publication also provides a series of case studies outlining an "inclusive and cooperative" approach to the transportation planning process. It also provides a brief overview of a selection of federal programs and opportunities covered by ISTEA, including: Flexible Funding; Major Investment Studies; Congestion Management Systems; Financial Constraints; Public Involvement Processes; Surface

Transportation Programs; Congestion Mitigation and Air Quality Improvement Program and a host of others.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson, fax 202-493-2478

Guidance for Estimation of Logit Models

Author: To be announced

Supporting Organization(s)/Contact: FHWA, FTA

Publication Year: Late 1997 **Media:** Printed Material

Key Words: mode choice, logit models, decision, disaggregate

Abstract: The objective is to produce an update of the document "A Self-instructing Course in Disaggregate Mode Choice Modeling", to include concepts of nested models as well as recent lessons learned from the estimation of mode choice models. While this document provides a good foundation of the theory of disaggregate mode choice models, much experience has been gained in the estimation of these models since this document was published, which should be captured in the update so that practitioners can learn from these efforts. This effort is needed because little has been documented of actual experiences with estimation of these models. This is particularly a problem because local agency staff experience is usually lacking in this area due to the infrequency of model estimation efforts. Work on this project will begin in the fall of 1996 and for more information contact Ron Fisher, of FTA, at (202)366-0257.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, 202-366-4054, fax 202-366-3713

Identification of Transportation Planning Data Requirements in Federal Legislation

Author: EG & G Dynatrend

Supporting Organization(s)/Contact: US DOT, US EPA

Publication Year: 1994 **Media:** Printed Material

Key Words: transportation planning, transportation systems management, transportation improvement program

Abstract: This report presents a brief overview of the new planning requirements in federal legislation (e.g., CAAA, ISTEA), as well as the data that will be needed to fulfill those requirements. In addition, the report provides insight into the ability of the current set of transportation planning models to address current planning requirements.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson

Institutional Aspects of Transportation Planning, Transportation Research Circular Number 450

Author: Transportation Research Board

Supporting Organization(s)/Contact: FHWA and FTA

Publication Year: 1995 **Media:** Printed Material

Key Words: Metropolitan planning organization (MPO), transportation planning, 3C, cooperative planning process, urban planning, ISTEA planning

Abstract: Proceedings of conference sponsored by FHWA and FTA through TRB May 21-24, 1995 in Williamsburg, VA. A group of 150 participants from across the United States discussed the status of metropolitan transportation planning in light of new roles and responsibilities associated with ISTEA. Objectives of the conference were to examine the resources and capabilities of MPOs, assess the relationships between MPOs, State DOTs, and transit agencies, and to identify additional research and technical assistance needs to help meet ISTEA objectives. Keynote presentations focused on the status of metropolitan planning from the perspectives of key stakeholders. Follow-up presentations addressed the current state of the metropolitan planning process. Workshops identified and developed ideas for future research and consensus on the status of current knowledge.

Ordering Information:

Transportation Research Board, 2101 Constitution Avenue, NW, Washington, DC 20418

Land Use Policies and Social, Environmental and Public Infrastructure and Service Costs

Author: Parsons Brinckerhoff Quade & Douglas, Inc.

Supporting Organization(s)/Contact: FHWA, Patrick DeCorla-Souza

Publication Year: 1997

Media: Printed Material

Key Words: land use, external cost

Abstract: Develop a system to account for public and social costs of alternative land use and transportation policies. Evaluate environmental consequences, and impacts on cultural, recreational and other community resources.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 50290, fax 202-366-3713

Measuring and Monitoring Congestion: Three Case Studies

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA, Brian Gardner

Publication Year: Late 1996

Media: Printed Material

Key Words: CMS, data collection, strategy evaluation

Abstract: This report documents three case studies in CMS-related activities. HPMS, GIS, and "non-traditional" measures are featured. Applications of data collection and analytical procedures to support CMS in Boston, Albuquerque, and the State of Montana (report in draft). Results will be published in an upcoming Metropolitan Planning Technical Report.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590, Brian Gardner, fax 202-366-3713

MIS Case Studies

Author: BRW, Inc.

Supporting Organization(s)/Contact: FTA; FHWA

Publication Year: 1996 **Media:** Printed Material

Key Words: Major investment studies, multimodal, collaboration, public involvement, streamlining

Abstract: Examples of successful major investment studies are presented.

Ordering Information:

FTA, Brian Jackson, fax 202-493-2478

MIS Questions and Answers

Author: Federal Transit Administration and Federal Highway Administration

Supporting Organization(s)/Contact: FTA; FHWA

Publication Year: 1995 **Media:** Printed Material

Key Words: major investment studies, metropolitan planning, corridor planning, NEPA process

Abstract: FHWA and FTA answer commonly asked questions related to the requirement for major investment studies. The answers provide policy and procedural guidance for carrying out the provisions of 23 CFR 450.318.

Ordering Information:

FTA, Brian Jackson, fax 202-493-2478

MIS Teleconference

Author: National Transit Institute

Supporting Organization(s)/Contact: FTA; FHWA

Publication Year: 1995 **Media:** Video

Key Words: major investment studies, multimodal planning, collaboration, NEPA process

Abstract: A 4-hour teleconference on major investment studies featuring FHWA and FTA staff answering questions posed by a live audience and callers from remote sites. Topics covered include the MIS process, collaboration, level of detail, and relationship to the environmental process.

Ordering Information:

FTA, Brian Jackson, fax 202-493-2478

Moving Urban America

Author: Transportation Research Board, Special Report 237

Supporting Organization(s)/Contact: FHWA and FTA

Publication Year: May 1992 **Media:** Printed Material

Key Words: metropolitan planning, ISTEA, MPO, 3C, transportation planning

Abstract: Seventh in a series of landmark conferences held since the late 1950's to anticipate and document major changes in urban transportation planning in the United States. Conference was convened shortly after passage of ISTEA to address implications for metropolitan transportation planning process. The 150 participants represented a cross section of metropolitan planning organizations, private groups, State DOTs, federal/state/local governments. Participants shared a tremendous feeling of optimism and empowerment, a marked difference from 10 years prior when the last conference in the series was held. This enthusiasm was promoted by ISTEA's substantial flexibility, new

programs, new transportation technologies and link to Clean Air Act. Conference consensus was that solutions to transportation problems that have broad appeal are hard to find and therefore different solutions are needed in each region. Better partnerships must be developed to avoid paralysis of decision making and to respond to customer needs. A user friendly system will require different ways of measuring costs and opportunities for travel for individuals and the system as a whole.

Ordering Information:

Transportation Research Board, 2101 Constitution Avenue, NW, Washington, DC 20418

MPO Capacity: Improving the Capacity of Metropolitan Planning Organizations to Help Implement national Transportation Policies, Report A-130

Author: US Advisory Commission on Intergovernmental Relations

Supporting Organization(s)/Contact: FHWA and FTA

Publication Year: 1995 **Media:** Printed Material

Key Words: Metropolitan planning organization (MPO), transportation planning, 3C, cooperative planning process, urban planning, ISTEA planning

Abstract: ISTEA (1991) created important new roles for the nation's 339 metropolitan planning organizations (MPO). This study addresses the question of MPO capacity. It begins with the hypothesis that many MPOs need help in fulfilling the expectations of ISTEA and outlines their initial experiences in trying to implement the law. The report addresses new field work on 18 MPOs serving 12 metropolitan areas. The findings cover an array of topics but generally point to a need for supporting activities to assist MPOs in addressing the challenges under ISTEA, even as many of them have undertaken substantial efforts to meet the new directions established by the legislation. The ACIR suggests several strategies for addressing these capacity needs ranging from regulatory strategies to support rather than regulate to direct technical assistance.

Ordering Information:

US Advisory Commission on Intergovernmental Relations, 800 K Street, NW, Suite 450, Washington, DC 20575

Multimodal Strategies: Development of Benefit-Cost Analysis Procedures

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA

Publication Year: September 1994 **Media:** Printed Material

Key Words: benefit-cost analysis, multimodal evaluation

Abstract: The Federal Highway Administration (FHWA) has developed a new course, National Highway Institute (NHI) course number 15257 "Estimating the Impacts of Urban Transportation Alternatives", to assist planners in developing the type of economic efficiency and other evaluative information needed to compare across modes and demand management strategies. To supplement the course, FHWA developed the Sketch Planning Analysis Spreadsheet Model (SPASM), through a contract with Cambridge Systematics, Inc. (Harry Cohen, Washington DC).

The software is based on the principles of economic analysis, and allows development of monetized impact estimates for a wide range of transportation investments and policies, including major capital projects, pricing and travel demand management (TDM). The EXCEL-based software focuses on public capital and operating costs, employer costs,

system user costs and benefits, air quality and energy impacts, and economic efficiency. The software facilitates quick estimation of these impacts for “sketch planning” type analysis. Sketch planning analysis is useful when detailed configuration of alternatives are not known, such as during screening of alternatives for Major Transportation Investment Studies (MIS), or during development and evaluation of system alternatives in long-range planning.

When more detailed analysis is required, however, SPASM cannot be used directly, although the general procedures in NHI course no. 15257 are still applicable. Also, the NHI course procedures do not discuss exactly how to develop the demand data needed. The data needed as input for the procedures may be obtained from the four step process or from off-model software. To facilitate wider application of the course procedures, it is necessary to develop appropriate procedures and software with a capability to directly tie into the four-step travel demand estimation procedures or off-model demand estimation procedures (such as the FHWA’s TDM software). This will allow general application of the NHI course procedures for more detailed levels of analysis.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Planning and Environmental Training Catalogue

Author: Federal Transit Administration

Supporting Organization(s)/Contact: FHWA, FTA

Publication Year: 1995

Media: Printed material

Key Words: training, transportation planning, environment

Abstract: This document serves as a catalogue for those persons interested in gaining a better understanding of transportation planning procedures through a series of training courses focusing on the environmental and planning aspects utilized within the transportation planning community. The catalogue also provides information on courses and registration for training. The training covers a variety of planning and environmental-related topics including: travel demand forecasting; project traffic forecasting; transportation planning for air quality analysis; congestion and intermodal systems; access management and promoting improved planning partnerships; and others.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson, fax 202-493-2478

Regional Forums on Congestion and Mobility - Proceedings

Author: Technautics, Inc.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Metropolitan Planning Division; ITS Joint Program Office, Charles R. Goodman 202-366-8070

Publication Year: 1996

Media: Printed Material

Key Words: congestion management, mobility, transportation planning

Abstract: Beginning in November 1995, a series of 1 to 2-day regional information Forums on Congestion and Mobility have been held in metropolitan areas across the U.S. The common objective and theme of the various forums was to raise awareness of cost

effective non-capital, management-type approaches to addressing metropolitan area congestion and mobility needs. The programs were targeted to transportation planners and decision-makers at the State, region, and local levels, and involved peer-to-peer presentations of case study success stories in congestion relief. The proceedings document discussions held within the workshops of measurable impacts, as well as the processes by which these strategies were conceived and implemented through the metropolitan area planning processes. The proceedings also address the development of recommendations and priorities for future research, in such areas as institutional issues, data needs, model development, and training.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713, Charles R. Goodman 202-366-6971

Report on Funding Levels and Allocations of Funds

Author: Federal Transit Administration

Supporting Organization(s)/Contact: FTA

Publication Year: Media: Printed Material

Key Words: new starts projects, new starts funding, urban rail, busways

Abstract: Presents the administrations recommendations for new start funding in fiscal year 1997. Included are profiles of 74 new start projects and studies.

Ordering Information:

FTA, Office of Budget and Policy, John Day 202-366-1671

Research Program Plan: Research Needs and Recommendations for CMS

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA

Publication Year: Spring 1997 Media: Conference, Printed Material

Key Words: CMS, research, outreach

Abstract: A significant effort to develop a long-range research program to support effective performance based planning, congestion relief, and mobility management by states and regional governments. Background papers are being developed for a TRB conference to be held in the Spring of 1997.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590, Brian Gardner 202-366-4061

Statewide Planning; and Metropolitan Planning; Rule

Author: Federal Highway Administration, Federal Transit Administration

Supporting Organization(s)/Contact: FHWA, FTA

Publication Year: 1993 Media: Printed Material

Key Words: metropolitan transportation planning/programming, eligibility, federal highway/transit funds

Abstract: This document provides assistance to MPOs, federal, State and local transportation planners in meeting the provisions of ISTEA. These requirements mandate the

significance of statewide and metropolitan transportation planning and programming and the eligibility of metropolitan areas and states for federal highway and transit funds.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, Room 6100, Washington, DC 20590 Brian Jackson, fax 202-493-2478

Synthesis of Congestion Management Planning and Program Development

Author: Cambridge Systematics, John Suhrbier, William Schwartz

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Doug Laird 202-366-5972

Publication Year: Spring 1997

Media: Printed Material

Key Words: congestion, congestion management, performance measures, performance thresholds, performance monitoring, mobility, accessibility, performance-based planning, system integration, data needs, multimodalism, before and after studies, effectiveness measures, strategies, strategy evaluation

Abstract: This report will provide a comprehensive reconnaissance, synthesis, and critique of congestion management planning activities throughout the United States. The purpose of this effort is to share noteworthy congestion management approaches and successes throughout the country with states and MPOs.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Transit Ridership Initiative

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: Transit Cooperative Research Program, Transportation Research Board

Publication Year: 1995

Media: Printed Material

Key Words: transit ridership, service planning.

Abstract: Researchers identified 27 transit systems which increased transit ridership between 1991 and 1993, and interviewed transit agency personnel to ascertain the reasons for their success. Ridership increases are attributed to service adjustments, fare and pricing adaptations, marketing and information initiatives, planning orientation, service coordination, consolidation, and market segmentation.

Ordering Information:

Chris Jenks, Transportation Research Board, 2101 Constitution Avenue, NW, Washington, DC 20418

Transportation Enhancement Activities

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA

Publication Year: 1992

Media: Printed Material

Key Words: transportation enhancements, eligibility, planning, programming

Abstract: This memorandum provides interpretations of the provisions in ISTEA relating to transportation enhancements. It addresses which activities qualify for enhancement funding, the difference between enhancements and mitigation, the necessary linkage

between proposed enhancements and transportation, the treatment of enhancements in the planning process and the project development process, accounting procedures, and program monitoring requirements.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-30), Washington, DC 20590, 202-366-0106

Working Together On Transportation Planning - An Approach to Collaborative Decision Making

Author: National Association of Regional Councils, Donald Ostrander

Supporting Organization(s)/Contact: FTA, Office of Policy Development, William B. Menczer

Publication Year: 1995 **Media:** Printed Material

Key Words: innovation, public/private sector participation, flexible collaborative decisionmaking making strategies

Abstract: This report provides examples to MPOs and other transportation stakeholders for developing collaborative decision making processes for producing transportation plans and programs to meet the challenges of the CAAAs of 1990 and ISTEA. These laws empower MPOs, State DOTs, and the communities they serve to work together throughout the development and adoption of transportation plans. This report shows, through detailed examples and practical advice, how MPOs can design collaborative processes that fulfill the intent of these federal statutes and strengthen the plans produced by MPOs.

Ordering Information:

NTIS Order Number PB95-236659; FTA, Office of Policy Development, 400 7th Street, SW, Room 9103, Washington, DC 20590, William Menczer

Workshop on Transportation & Air Quality Analysis (NHI Course Number 15265)

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division

Publication Year: On-going **Media:** Course and Printed Material

Key Words: emission, conformity, VMT, air quality

Abstract: This course provides a discussion of currently available analytical techniques for developing travel estimates for air quality analysis. The course is designed to provide each participant with a grasp of the technical issues regarding transportation-mobile source emissions analyses and understanding of both the capabilities and limitations of available analysis tools. Additionally, participants will become familiar with techniques currently available for developing travel related data for mobile source emissions inventories, analyzing transportation improvement programs/plans for conformity to SIPs, forecasting and tracking vehicle miles of travel (VMT), and evaluating transportation control measures (TCMs).

Ordering Information:

Technical Questions, Jerry Everret, FHWA, 202-366-4079

Course Requests, Al Miller, NHI, 703-235-0521

PRODUCT LISTING

METROPOLITAN PLANNING — TECHNICAL

Activity Survey Analysis

Author: Peter Stopher

Supporting Organization(s)/Contact: FHWA, FTA

Publication Year: 1998

Media: Printed Material

Key Words: activity-based forecasting, diary, classification

Abstract: The work described in papers would be extended to the full Boston data set and also to one or more of the available activity-diary data sets from other regions, particularly Salt Lake City, Detroit, Portland and possibly Southern California and Oahu. This would involve examining the frequencies of each type of activity according to its classification as mandatory, flexible or optional. Next, the duration of the activities would be examined, both at the levels of the specific activity and the activity class by life-cycle grouping, to determine if there are significant differences among the life-cycle groups. Subsequently, gender and working status differences in activity and duration allocations for flexible and optional activities will be investigated. Second, the research will look at the effects of resource measures, such as income, number of vehicles, number of adults, and number of workers. This would be determined in addition to the effects already determined from life cycle, gender, and worker status. This would continue to be undertaken in the context of analyses of variance to determine the significance of the effects of each resource constraint, and to work with the amounts of time allocated to the different activities. Work on this project will begin in the fall of 1996. For more information call Ron Fisher, of FTA, at 202-366-0257.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, 202-366-4054, fax 202-366-3713

Activity-Based Travel Demand Forecasting

Author: RDC, Inc.

Supporting Organization(s)/Contact: FHWA, FTA, OST, EPA, and Washington Council of Governments

Publication Year: 1996

Media: Printed Material

Key Words: travel demand management, transportation control measures, commuting trips, activity-based, travel demand forecasting

Abstract: This project will test the potential of performing travel forecasting based on generation of activities as a basis for trips. A stated preference survey collected data on travel chains related to commute trips and responses to transportation demand management strategies. The model will predict commute mode shift, changes in departure time and changes in trips made as part of the home-to-work or work-to-home trip chains.

Ordering Information:

Request Report Number DOT-T- 96-02, Technology Sharing Program, U.S. Department of Transportation, Subsequent Distribution Office, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785, or order thru the World Wide Web, <http://www.tsp.dot.gov>

Advanced Travel Demand Forecasting (NHI Course Number 15260)

Author: Cambridge Systematics, Inc

Supporting Organization(s)/Contact: FHWA

Publication Year: On-going **Media:** Course and Printed Material

Key Words: travel demand forecasting, trip generation, distribution, mode split, assignment

Abstract: An introductory level NHI training course on travel demand forecasting (NHI course number 15254) is currently offered by FHWA. The purpose of NHI course number 15260 is to build on the introductory travel demand forecasting course, emphasizing advanced practices for travel demand modeling at the system level. Topics covered include advanced practices for land use allocation, network description, trip generation, trip distribution, mode choice, peaking analysis and traffic assignment. Feedback loops, off-model analyses (e.g., TDM models) and model development, validation and application issues are discussed. The course consolidates the best procedures and methodologies for estimating the travel impact of multimodal transportation and land use alternatives and demonstrates applications of these procedures. The course is oriented toward current modeling practitioners, i.e., those who have a thorough understanding of the traditional four-step travel demand forecasting process, such as practitioners with 2 or 3 years of hands-on experience with computerized four-step models.

Ordering Information:

Technical Information, Patrick DeCorla-Souza 202-366-4076

Course Coordinator, Al Miller 703-235-0521

Airport Access Planning Guide (Draft)

Author: Phil Shapiro, BMI, in association with Leigh Fisher Associates, Inc. & Matthew Coogan

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Planning Division, Lee Chimini 202-366-4068

Publication Year: 1996 **Media:** Electronic Media

Key Words: airport, passenger, conformity regulations, ground access, performance measures, data collection, surveys, demand forecasting, alternate strategies

Abstract: This guide is being distributed to interested professionals involved in airport access planning. The report presents the results of a project jointly sponsored by the FHWA and the FAA. It outlines the process for planning ground access to airports within the context of current laws and regulations. This report identifies the key components of an airport access work program; discusses performance measures, data collection and surveys, forecasting patterns and demand and evaluation; and provides extensive information on alternative strategies for improving airport access conditions.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Lee Chimini 202-366-4068

An Operational Description of TRANSIMS

Author: Chris Barrett, et. al., Los Alamos National Labs

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1995 **Media:** Printed Material

Key Words: TRANSIMS, travel demand forecasting, simulation

Abstract: The TRANSIMS Operational Description provides an overview of the TRANSIMS software framework. It discusses the relationships among the time scales,

entities, and detail included in the TRANSIMS models and introduces the TRANSIMS architecture. The TRANSIMS architectural description includes the component functions and the information flow among them. Examples illustrate how transportation planners might use TRANSIMS to assess the implications of transportation systems infrastructure and policy changes.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Analytical Procedures to Support a Congestion Management System

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA, Brian Gardner

Publication Year: 1996

Media: Printed Material

Key Words: congestion management systems

Abstract: This report documents measures for identifying congestion and outlines current methods for evaluating strategies. Results will be published in an upcoming metropolitan planning technical report.

Ordering Information:

FHWA, Brian Gardner 202-366-4061

Assessment of Emerging Data Collection Practices to Support State and Regional Transportation Planning

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1996

Media: Printed Material

Key Words: travel data collection

Abstract: A white paper is being written to assess the state-of-the-practice versus the state-of-the-art in travel data collection. The information will be used as a basis for a recommended long-range research program for Track D.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Bicriteria Assignment Model Testing

Author: Robert Dial

Supporting Organization(s)/Contact: FHWA, FTA, OST, Brian Gardner

Publication Year: 1997

Media: Printed Material

Key Words: travel models, trip assignment, road pricing

Abstract: Field test procedures to analyze impact of congestion pricing (multicriteria assignment [T2] model in testing by contract and in-house).

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590, Brian Gardner, fax 202-366-3713

Bicycle and Pedestrian Planning Under ISTEA (NHI Course Number 15135)

Author: Bicycle Federation of America

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Planning Division, John C. Fegan 202-366-5007

Publication Year: 1995

Media: Course and Printed Material

Key Words: ISTEA, planning, bicycle, pedestrian

Abstract: This course presents the recommended techniques for planning for bicyclists and pedestrians as part of state and MPO long-range transportation planning as required by ISTEA legislation. Examples of procedures and products are included in the course materials.

Ordering Information:

National Highway Institute, 901 Stuart Street, Suite 300, Arlington, VA 22203, Al Miller 703-235-0521

Capital District (Albany, NY) Case Study - Congestion Management System

Development: Task 1 Report

Author: Chris O'Neil and John Poorman, Capital District Transportation Committee

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois 202-366-6072

Publication Year: 1995

Media: Printed Material

Key Words: MPO, TIP, mobility, congestion management, case studies, multimodal planning

Abstract: Interim experiences with the development and establishment of a CMS in the Albany, NY, area are presented in this report by the region's MPO staff. The report relays early policy and programming experiences, as well as discussions of CMS integration into planning and programming, multimodal activities enhanced by CMS, and public participation. Results will be published in an upcoming metropolitan transportation planning report.

Ordering Information:

Monica Francois 202-366-6072

Case Studies for Corridor Planning Seminar

Author: COMSIS and Parsons Brinckerhoff

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Patrick DeCorla-Souza

Publication Year: 1995

Media: Printed Material

Key Words: corridor planning

Abstract: This research develops case studies to demonstrate the principles of good corridor planning. The research will demonstrate the principles of good planning pursuant to the regulations through case study examples of corridor level studies representing good practice. Case studies will be drawn from studies completed in the past for corridor analyses, including those done for the Alternatives Analysis (AA) process required by FTA for transit projects, the EIS process required by FHWA for highway projects, and other corridor level studies. Also, for the purpose of demonstrating the principles in a cohesive manner, the research will identify the best practices from past studies as well as new features incorporating the spirit of ISTEA and US DOT staff's initial thinking on how the new US DOT regulations may be implemented. A report documenting key features

reflecting good practices of three case studies, and critiquing the studies relative to the new approach under new US DOT regulations.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Census Transportation Planning Package (CTPP): A Brochure

Author: JHK & Associates, Whit Blanton

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: 1994

Media: Printed Material

Key Words: census, journey-to-work, statewide planning, metropolitan planning, data, travel demand forecasting

Abstract: Provides an overview for management, decision-makers, and the public on uses of the census journey-to-work data.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Census Transportation Planning Package (CTPP): A Video

Author: JHK & Associates (Whit Blanton)

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: 1994

Media: Video

Key Words: census, journey-to-work, statewide planning, metropolitan planning, data, travel demand forecasting

Abstract: Provides an overview for management, decision-makers, and the public on uses of the census journey-to-work data.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Census Transportation Planning Package (CTPP) Urban Element Technical Assistance

Author: JHK & Associates, Whit Blanton

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: 1995

Media: Workshop

Key Words: census, statewide planning, metropolitan planning, data, travel demand forecasting

Abstract: A 2-day workshop sponsored by FHWA and the Bureau of Transportation Statistics, this technical assistance is provided free of charge to the host agency, although the host is responsible for assuming local coordination responsibilities and for any costs related to on-site computer facilities needed.

The workshop concept is designed to give hands-on instruction with the local CTPP urban element data, for up to 20 professionals. JHK & Associates work with each host site to ensure the workshop outline addresses local needs and application issues. In addition to learning urban area applications and using their actual CTPP data, participants will become versed in using TransVu extraction software.

Ordering Information:

NOTE: Availability expected to expire mid 1997. Contact Whit Blanton of JHK & Associates to arrange a technical assistance visit for your organization 407-422-8813.

Characteristics of Urban Freight Systems (CUFS)

Author: Dr. Frederick Wegmann, et al., The University of Tennessee

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Planning Division, Stefan Natzke 202-366-9236

Publication Year: Summer 1996 **Media:** Printed Material

Key Words: freight planning, freight data, truck, intermodal

Abstract: The CUFS Manual was developed to support transportation planning needs for movement of urban goods and freight planning as promoted in ISTEA. CUFS is a compilation of data pertaining to urban freight movements. Sections of the report cover the importance of trucks, characteristics of the national commercial truck fleet, urban truck travel relationships, truck percentages on roadways, loading zone use characteristics, urban truck accidents and incidents, trip rates, truck terminal information, truck loading zone design information, rail-truck intermodal transportation, air cargo, and marine and inland ports. Most data were drawn from the U.S. and Canadian experience since the mid-1980s.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Stefan Natzke 202-366-9236

Computer-Aided Tools and Technologies Used in Decision-Making and Presentation

Author: NARC, Richard Hartman and MIT, Dr. Mike Shiffer

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois 202-366-6072

Publication Year: 1996 **Media:** Printed Material

Key Words: decision-making, information systems, public participation, MPO, decision support

Abstract: A cooperative study with NARC and its association of MPOs, the project used case studies of MPOs of different sizes and levels of sophistication to identify where MPO activities and decision-making could be better supported with advanced technologies. Recommendations for deployment, testing, further research, and pooled fund studies are discussed.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Congestion Management for Technical Staff Course (NHI Course Number 15259)

Author: JHK and Associates, Jim Witkowski, Steve Smith

Supporting Organization(s)/Contact: Federal Highway Administration, Metropolitan Planning Division

Publication Year: 1994 (original), 1995 (update) **Media:** Course and Printed Material

Key Words: congestion, congestion management, performance measures, performance thresholds, performance monitoring, mobility, accessibility, performance-based planning, system integration, data needs, multimodalism, before and after studies, effectiveness measures, strategies, strategy evaluation

Abstract: This 3-day course provides participants with an in-depth examination of the elements required to successfully carry out congestion management (CM) activities in the planning process. Subjects include: modes and networks to monitor, performance measures, data collection and performance monitoring, strategy identification and evaluation, linking performance measures to strategies, strategy effectiveness monitoring, relationships to other management systems, and documentation. The course is designed for staff who work with CM strategies or who are responsible for the implementation and operation of a CM system.

Ordering Information:

Technical Questions, Doug Laird, FHWA, 202-366-5972

Course Requests, Al Miller, NHI, 703-235-0521

Congestion Management Newsletter

Author: Volume II ('96), Cambridge Systematics, Inc., Laurie Hussey and Bill Schwartz; Volume I ('95), Gary Hawthorn Associates

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: On-going **Media:** Printed Material

Key Words: congestion, mobility, ITS

Abstract: This four-page newsletter, prepared every other month, shares multimodal case studies, research news, training opportunities, and practitioner experiences in the areas of congestion management and mobility enhancement. "Piggy back" distribution is used to maximize resources; primary distribution includes supplements to association journals (such as the *ITE Journal* and *AASHTO Journal*) and electronic availability.

Ordering Information:

ITE Journal and *AASHTO Journal*, WWW address: <http://www.io.com/~itehq/reflib.htm>

Congestion Management Resources Listing

Author: FHWA

Supporting Organization(s)/Contact: FHWA, Doug Laird 202-366-5972

Publication Year: 1996 **Media:** Printed Material

Key Words: congestion, congestion management

Abstract: This biannual insert to *Congestion Management News* provides contacts and resources for the effective implementation of congestion management activities within the planning process. Results will be published in an upcoming metropolitan transportation planning report.

Ordering Information:

Doug Laird 202-366-5972

Congestion Management System Case Study of the Washington Region, Task 1 Report: Activities to Date

Author: Andrew Meese, Metropolitan Washington Council of Governments

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: 1995

Media: Printed Material

Key Words: MPO, mobility, congestion management, case studies, data management, institutional relationships, data

Abstract: Interim experiences with the development and establishment of a CMS in the Metropolitan Washington region are presented in this report by the area's MPO staff. The report relays early policy and technical experiences, as well as discussions of regional transportation data management, performance measure development and testing, and multijurisdictional issues. Results will be published in an upcoming metropolitan transportation planning report.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Congestion Management System Development Program for the Puget Sound Region: Final Mid-Term Report

Author: Nick Roach, Puget Sound Regional Council

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: 1995

Media: Printed Material

Key Words: MPO, mobility, congestion management, case studies, data management, institutional relationships, data

Abstract: Interim experiences with the development and establishment of a CMS in the Metropolitan Washington region are presented in this report by the area's MPO staff. The report relays policy, programming and technical experiences, as well as discussions of ITS support for data monitoring requirements and integration of CMS efforts with regional and statewide planning and programming goals. Results will be published in an upcoming metropolitan transportation planning report.

Ordering Information:

Monica Francois 202-366-6072

Congestion Management Systems, CD-ROM

Author: Florida Department of Transportation

Supporting Organization(s)/Contact: FHWA, Brian Gardner 202-366-4061

Publication Year: 1997

Media: Printed Material, Electronic Media

Key Words: congestion management

Abstract: Congestion management training project develops a computer-based aid for interactive communication of CMS-related concepts. The project is also adaptable to a World Wide Web site.

Ordering Information:

Brian Gardner 202-366-4061

CTPP Handbook: An Instructional Guide to the 1990 Census Transportation Planning Package

Author: JHK& Associates, Whit Blanton

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: 1995

Media: Printed Material

Key Words: census, journey-to-work, statewide planning, metropolitan planning, data, travel demand forecasting

Abstract: The handbook is designed for technical staff as an instructional guide to the 1990 Census Transportation Planning Package (CTPP) and its potential uses. The CTPP contains 1990 social and economic data by place of residence, place of work, and journey to work, at various levels of detail and geography. The CTPP is the largest national sample of commuter travel characteristics and is available for each state and metropolitan area in the United States.

This handbook gives users an overview of the CTPP and includes discussions of basic census definitions and CTPP organization into tables and parts, as well as some case studies that use simple spreadsheets and provide hands-on experience with concepts and potential uses of CTPP data in transportation planning.

Ordering Information:

Publication No. FHWA-PD-95-019; fax 301-386-5394

Data Collection in the Portland Oregon Metropolitan Area

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1996

Media: Printed Material

Key Words: data collection techniques, motorized travel, non-motorized travel, travel demand modeling, socioeconomic data, land use data, traffic volumes, speed, vehicle classification

Abstract: A case study of Portland, Oregon will be prepared to illustrate the application of leading edge state-of-the-practice data collection techniques. This case study will describe a number of transportation data collection activities in the metropolitan area. It will cover

both motorized and non-motorized travel modes, as well as the full spectrum of the travel demand modeling process, from socioeconomic and land use data through traffic volumes, speed, and vehicle classification.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Developing an Effective Congestion Management System, Report 1: Dallas/Ft. Worth, TX, Case Study

Author: Dan Rocha, North Central Texas Council of Governments

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Monica Francois
202-366-6072

Publication Year: 1995

Media: Printed Material

Key Words: MPO, mobility, congestion management, case studies, public involvement

Abstract: Interim experiences with the development and establishment of a CMS in the Dallas/Ft. Worth area are presented in this report by the region's MPO staff. The report relays early policy and programming experiences, as well as discussions of nontraditional participants in decision-making, distribution of CMS information to decision-makers, and integration of CMS into decision-making. Results will be published in an upcoming metropolitan transportation planning report.

Ordering Information:

Monica Francois 202-366-6072

Development of Diurnal Traffic Distribution and Daily, Peak, and Off-Peak Vehicle Speed Estimation Procedures for Air Quality Planning

Author: Science Application International Corporation; Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning Division, Patrick DeCorla-Souza

Publication Year: 1995

Media: Printed Material

Key Words: air quality analysis, speed estimation

Abstract: US EPA's MOBILE5 model requires, as one of its inputs, vehicle speeds. Also, the November 1993 conformity rules require travel times used in trip distribution to be consistent with travel times resulting from trip assignment. Congestion, it is believed, will cause trips to be sent to closer destinations. Thus, in a "no-build" scenario, travel distances (and therefore VMT) will be less than in a "build" scenario.

Currently, the post-processor approach, i.e., refining the speeds output by traffic assignments in travel forecasting models, is being used by many emissions modelers. However, speeds in traffic-saturated (congested) conditions are difficult to capture with existing post-processing procedures (e.g., the Highway Capacity Manual).

The purpose of this research effort is to build upon the previous work by SAIC on speed modeling and time-of-day distribution (T-O-D) of daily traffic, to refine the procedures to

make them better suited for emissions modeling and for use in estimating average daily speeds for trip distribution "feedback" analysis, and to develop the needed applications software to facilitate use of the procedures by travel demand and emissions modelers.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590, fax 202-366-3713

Development of GIS Procedures for Impact Analysis of Transportation Alternatives

Author: Brian Gardner, Michael Culp, William Graves

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division

Publication Year: 1997

Media: Printed Material

Key Words: impact evaluation, GIS, alternatives analysis

Abstract: This project will document techniques for impact evaluation of transportation alternatives. Development of such techniques is intended to provide impact analysis results in an improved medium to allow decision-makers to make more informed funding decisions. Impacts to be evaluated will include congestion, air quality, land use, noise and economic. GIS will be highlighted as a platform for the analysis of spatial impacts and presentation of analysis results. A case study area will be used to demonstrate the techniques.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590, Michael Culp 202-366-9229

Development of Procedures to Integrate Travel Demand Models, Traffic Simulation Models and GIS

Author: Ping Liang, Brian Gardner, Michael Culp

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division

Publication Year: 1997

Media: Printed Material

Key Words: travel demand forecasting, traffic simulation, GIS

Abstract: This project will document research in progress at FHWA to increase the sensitivity of travel demand forecasting procedures. This is to be done through the integration of a traffic macro-simulator. This will increase the sensitivity of the models for the evaluation of proposed improvements, such as ITS, bottleneck removal and intersection improvements. Effects of spillback and traffic-queuing on system performance will be considered. GIS will be used as a platform for sensitivity testing and evaluation of results.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590, Michael Culp 202-366-9229

Effects of Land Use and TDM Strategies on Commuting Behavior

Author: Cambridge Systematics, Inc. with assistance from Deakin, Harvey, Skabardonis, Inc.

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1995

Media: Printed Material

Key Words: urban design characteristics, demand management incentives, single occupant vehicle, employment sites, financial incentives

Abstract: This project examined the relationship between commute mode and the combined effect of urban design characteristics and demand management incentives to decrease single occupant vehicle (SOV) usage. Information was collected from employment sites in the Los Angeles area. Of all the incentives examined, only the financial incentives were shown to have a significant impact on mode share. The urban design characteristic with the greatest decrease in SOV usage was aesthetically pleasing urban character.

Ordering Information:

Request Report Number DOT-T- 94-21, Technology Sharing Program, U.S. Department of Transportation, Subsequent Distribution Office, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785, or order thru the World Wide Web, <http://www.tsp.dot.gov>

Enhanced Planning Review of the Honolulu, HI Metropolitan Area

Author: Federal Transit Administration and Federal Highway Administration

Supporting Organization(s)/Contact: FTA, Office of Planning; FHWA, Office of Environment and Planning

Publication Year: 1996

Media: Printed Material

Key Words: Honolulu, enhanced planning review, ISTEA, planning factors

Abstract: Results of the review of Honolulu's transportation planning process and its implementation of ISTEA. Includes discussion of the area's performance in developing a Regional Transportation Plan, Transportation Improvement Program, Unified Work Plan; organization of the local planning process, etc.

Ordering Information:

fax 617-494-3559; form located at <http://www.fta.dot.gov>

Enhanced Planning Review of the New York City Metropolitan Area

Author: Federal Transit Administration and Federal Highway Administration

Supporting Organization(s)/Contact: FTA, Office of Planning; FHWA, Office of Environment and Planning

Publication Year: 1996

Media: Printed Material

Key Words: New York City, enhanced planning review, ISTEA, planning factors

Abstract: Results of the review of New York City's transportation planning process and its implementation of ISTEA. Includes discussion of the area's performance in developing a Regional Transportation Plan, Transportation Improvement Program, Unified Work Plan; organization of the local planning process, etc.

Ordering Information:

fax 617-494-3559; form located at <http://www.fta.dot.gov>

Enhanced Planning Review of the Salt Lake and Ogden Metropolitan Area

Author: Federal Transit Administration and Federal Highway Administration

Supporting Organization(s)/Contact: FTA, Office of Planning; FHWA, Office of Environment and Planning

Publication Year: 1996

Media: Printed Material

Key Words: Salt Lake and Ogden, enhanced planning review, ISTEA, planning factors

Abstract: Results of the review of Salt Lake and Ogden's transportation planning process and its implementation of ISTEA. Includes discussion of the area's performance in developing a

Regional Transportation Plan, Transportation Improvement Program, Unified Work Plan; organization of the local planning process, etc.

Ordering Information:

fax 617-494-3559, form located at <http://www.fta.dot.gov>

Estimating the Impacts of Urban Transportation Alternatives (NHI Course Number 15257)

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA

Publication Year: Winter 1996 **Media:** Course and Printed Material

Key Words: multimodal investment, demand management alternatives, course

Abstract: This course focuses on analysis of costs, benefits, and economic, social and environmental impact of multimodal investment and demand management alternatives in urban areas. The innovative and timely analysis techniques presented in the course are applicable to evaluation of cross-modal alternatives for long range planning, screening of alternatives for major investment studies (MIS), CMS, TCM and travel demand management (TDM) analysis; and estimation of emissions impacts of projects proposed for funding through CMAQ funds.

The course does not discuss methodologies for estimating travel demand impact. Other NHI courses focus on demand estimation, e.g., course numbers 13369 and 13370 on TDM impact estimation, number 15254 on the four-step process, and the forthcoming (Fall 1995) course number 15260 on advanced applications of the four-step process.

Ordering Information:

Course coordinator, Al Miller 703-235-0521

Technical information, Patrick DeCorla-Souza 202-366-4076

Evaluating the Operational Impacts of Access Control Strategies Using TRAF-NETSIM

Author: Ron Giguere and Brian Gardner

Supporting Organization(s)/Contact: FHWA

Publication Year: 1993 **Media:** Printed Material

Key Words: Access management, traffic simulation

Abstract: Published in the Access Management Conference Proceedings (Vail 1993), this paper examines the technical feasibility of using TRAF-NETSIM for evaluating access management techniques.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-20), Washington, DC 20590, fax 202-366-3713

Evaluation of Intermodal Passenger Transfer Facilities

Author: Alan J. Horowitz and Nick Thompson, Univ. Of Wisconsin-Milwaukee

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Planning Division, Lee Chimini, 202-366-4068

Publication Year: 1994 **Media:** Printed Material

Key Words: passenger, project objectives, access, facility location, boundary analysis, institutional arrangements, development, design, user benefits

Abstract: This report presents an array of methods for preliminary design, location, and evaluation of intermodal passenger transfer facilities. It contains opinions of a large number of transit users and planners and documents a unified set of tools for evaluating the effectiveness of intermodal passenger facilities for application by practicing transportation planners and engineers.

Ordering Information:

Report number DOT-T-95-02, Technology Sharing Program, U.S. Department Of Transportation, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785; WWW: <http://www.tsp.dot.gov>

Feasibility Study of Using Commercial Data for Transportation Planning

Author: To be announced

Supporting Organization(s)/Contact: FHWA and Volpe Center

Publication Year: 1998

Media: To be decided

Key Words: transportation data, commercial data

Abstract: Phase I of this Small Business Innovative Research (SBIR), project will get underway in the fall of 1996. The objective of this project the development of a set of innovative tools is that would allow planning agencies to decrease their reliance on specially collected survey data and make use of commercially available data, such as credit reports, vehicle registrations, sales records, marketing studies and other similar information. These tools may be in the form of new or altered computer models, databases, etc., which would allow planning agencies to either supplement or replace existing data sources. Phase I of the project has a 6-month duration. After its completion, an evaluation will be made of the feasibility of the project based on the products of this first phase.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-20), Washington, DC 20590, Jerry Everret 202-366-4079

Freight Forecasting Conference Proceedings

Author: Dr. Robert Czerniak, New Mexico State University

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning and Statewide, Intermodal Programs Divisions, Dane Ismart 202-366-4071

Publication Year: 1996

Media: Printed Material

Key Words: freight, commercial vehicles, forecasting, transportation planning

Abstract: Summarizing the Freight Forecasting Conference held in Albuquerque in September of 1995, these proceedings include discussions of the need for freight and commercial forecasting tools and the state-of-the-practice in their development and application. Primary impetus for the conference were ISTEA's expanded requirements for freight planning and intermodal considerations. The proceedings focused heavily on the development of recommendations and priorities for research in such areas as data needs, model development, training and technology transfer, institutional considerations and information sharing protocols.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, 202-366-4054, fax 202-366-3713

GIS Applications for CMS

Author: Jeff Jensen

Supporting Organization(s)/Contact: NHI

Publication Year: Spring 1997 **Media:** Printed Material

Key Words: congestion management, GIS, data synthesis

Abstract: Study by Graduate Research Fellow of GIS applications for measuring metropolitan congestion. The work focuses on resources identification, database development and travel time analysis in a case study context.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-20), Washington, DC 20590, Brian Gardner, fax 202-366-3713

Guidance for Estimation of Logit Models

Author: To be determined

Supporting Organization(s)/Contact: FHWA, FTA, OST and EPA, Ron Fisher 202-366-0257

Publication Year: 1997 **Media:** Printed Material

Key Words: mode choice, logit models, decision, disaggregate

Abstract: The objective of this effort is to produce an update of the document entitled "A Self-instructing Course in Disaggregate Mode Choice Modeling," including concepts of nested models, as well as recent lessons learned from the estimation of mode choice models. While the original document provides a good foundation of the theory of disaggregate mode choice models, much experience has been gained in the estimation of these models since the original was published. This information should be captured in the update so that practitioners can learn from these efforts. This effort is needed, because little has been documented of actual experiences with estimation of these models. Because model estimation efforts are infrequent, local agency staff members usually lack experience in this area. Work on this project will begin in the fall of 1996.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Identification of Transportation Planning Data Requirements in Federal Legislation

Author: Karla H. Karash and Carol Schweiger, EG&G Dynatrend

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1994 **Media:** Printed Material

Key Words: data collection, CAAA, ISTEA, transportation planning models

Abstract: This report identified the new planning and associated data collection requirements set forth in the CAAAs of 1990 and ISTEA (1991). This report also identifies the shortcomings of the existing set of transportation planning models in terms of their ability to fulfill the new requirements.

Ordering Information:

Request Report Number DOT-T- 94-21, Technology Sharing Program, U.S. Department of Transportation, Subsequent Distribution Office, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785, or order thru the World Wide Web, <http://www.tsp.dot.gov>

Incorporating Feedback in Travel Forecasting: Methods, Pitfalls, and Common Concerns

Author: COMSIS Corporation

Supporting Organization(s)/Contact: FHWA, FTA, OST

Publication Year: 1996

Media: Printed Material

Key Words: travel models, conformity analysis

Abstract: This report documents methods for addressing modeling requirements of the CAAAs relating to consistency between path assumptions in trip distribution and trip assignment. Theoretical derivations and empirical study are also provided.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, 202-366-4054, fax 202-366-3713

Institutional Aspects of Transportation Planning, Transportation Research Circular Number 450

Author: Transportation Research Board

Supporting Organization(s)/Contact: FHWA and FTA

Publication Year: 1995

Media: Printed Material

Key Words: MPO, transportation planning, 3C, cooperative planning process, urban planning, ISTEA planning

Abstract: This report is the proceedings of conference sponsored by FHWA and FTA through TRB May 21-24, 1995, in Williamsburg, VA. A group of 150 participants from across the United States discussed the status of metropolitan transportation planning in light of new roles and responsibilities associated with ISTEA. Objectives of the conference were to examine the resources and capabilities of MPOs, assess the relationships between MPOs, State DOTs, and transit agencies and to identify additional research and technical assistance needs to help meet ISTEA objectives. Keynote presentations focused on the status of metropolitan planning from the perspectives of key stakeholders. Follow-up presentations addressed the current state of the metropolitan planning process. Workshops identified and developed ideas for future research and consensus on the status of current knowledge.

Ordering Information:

Transportation Research Board, 2101 Constitution Avenue, NW, Washington, DC 20418

Integrated Transportation and Land Use Forecasting: Sensitivity Tests of Alternative Model System Configuration

Author: S.H. Putman Associates

Supporting Organization(s)/Contact: FHWA, FTA, OST

Publication Year: Spring 1997

Media: Printed Material

Key Words: travel models, conformity analysis, land use

Abstract: This report documents methods for addressing modeling requirements of ISTEA and the CAAAs relating to consistency between land use and transportation investment. Applications in five case study areas are examined.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, 202-366-4054, fax 202-366-3713

Intermodal Freight Transportation

Volume I: Overview of Impediments, Data Sources for Intermodal Transportation Planning, and Annotated Bibliography

Volume II: Fact Sheet and Federal-Aid Eligibility

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Planning Division, Stefan Natzke 202-366-9236

Publication Year: 1996

Media: Printed Material

Key Words: intermodal, freight, impediments, eligibility

Abstract: Intermodal Freight Transportation documents Phase I of a project researching impediments to efficient intermodal freight transportation. Volume I describes intermodal transportation in general and describes and provides examples of infrastructural, operational, regulatory, financial, and institutional impediments in general and for particular modes. Volume I also presents data sources for intermodal transportation planning, along with an annotated bibliography. Volume II contains a fact sheet (which summarizes the Volume I overview), as well as a detailed discussion on the eligibility of intermodal freight projects for federal-aid highway program monies.

Ordering Information:

Report Number DOT-T-96-05, FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Stefan Natzke 202-366-9236

Intermodal Freight Transportation: It's Goods for You!

Author: Federal Highway Administration; Maritime Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Planning Division; MARAD

Publication Year: 1994

Media: Video

Key Words: intermodal, freight, trade

Abstract: This video provides a general overview of freight transportation and intermodalism in the United States.

Ordering Information:

FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Dane Ismart 202-366-4071

Introduction to Urban Travel Demand Forecasting (NHI Course Number 15254)

Author: Federal Highway Administration

Supporting Organization(s)/Contact: NHI, Metropolitan Planning Division

Publication Year: On-going

Media: Course and Printed Material

Key Words: travel demand forecasting

Abstract: This introductory course in travel demand forecasting covers, through lectures and workshops, the traditional four-step planning process of trip generation, trip distribution, mode choice, and traffic assignment. It also includes lectures on information needs and the development of networks and zone structures. The course is offered both in the field and at FHWA Headquarters in Washington, DC. The field course may be presented using one of two methods: (1) using the microcomputer package used by the host agency to reinforce the theory taught or (2) as a noncomputerized course with hand-solved workshop problems. The Headquarters course is taught with hand-solved workshop problems (as in field option 2), but additionally includes a software demonstration day, on

which students work through problems previously solved manually in class. The headquarters course is usually presented in the first week of March and in the first week of October.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, (HEP-20), Washington, DC 20590, Michael Culp 202-366-9229

Investigation of Transit Transfer Penalties

Author: Central Transportation Planning Staff

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA, Ron Fisher 202-366-0257

Publication Year: 1997

Media: Printed Material

Key Words: transit transfer penalties

Abstract: The objective of this project is to determine the magnitude of a transfer penalty above that incurred by waiting for the vehicle. Stated preference work to date, both in the U. S. and abroad, indicates that penalties of up to 30 minutes of in-vehicle time could be incurred by transferring, but estimations of mode share models rarely, if ever show a penalty. By paying particular attention to network impedances and mode share estimation, this study is intended to find if a penalty exists for the Boston area, and make recommendations for other areas.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Land Transportation Access to Ports and Marine Terminals

Author: Federal Highway Administration; Maritime Administration

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Planning Division, Lee Chimini

Publication Year: 1993

Media: Printed Material

Key Words: planning factors, freight, management systems, funding, eligibility, MPOs

Abstract: This brochure is intended to inform the port community, MPOs and state transportation agencies about opportunities within ISTEA to address specific port-related policies and projects. It also provides a strategic focus for ensuring that port projects and plans are considered through the metropolitan and statewide planning programs.

Ordering Information:

Publication No. FHWA-PD-94-007, FHWA, 400 7th Street, SW, (HEP-10), Washington, DC 20590, Lee Chimini, fax 202-366-7660

Land Use Forecasting Conference Proceedings

Author: Texas Transportation Institute

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1996

Media: Printed Material

Key Words: land use forecasting models

Abstract: The Land Use Modeling Conference was sponsored by the U.S. Departments of Transportation, Energy, and the Environmental Protection Agency. Conference attendees prepared recommendations for improving existing land use models, developing

fundamentally new procedures, and a program of research, development and deployment to accomplish those improvements.

Ordering Information:

Request Report Number DOT-T- 96-09, Technology Sharing Program, U.S. Department of Transportation, Subsequent Distribution Office, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785, or order thru the World Wide Web, <http://www.tsp.dot.gov>

Measuring and Monitoring Congestion: Three Case Studies

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Brian Gardner 202-366-4061

Publication Year: 1996

Media: Printed Material

Key Words: CMS, data collection, strategy evaluation

Abstract: This report, currently in draft form, documents three case studies in CMS-related activities. HPMS, GIS, and “nontraditional” measures are featured. Applications of data collection and analytical procedures to support CMS in Boston, Albuquerque, and the State of Montana will be included. Results will be published in an upcoming metropolitan planning technical report.

Ordering Information:

Brian Gardner 202-366-4061

Methodologies for Evaluating Bus Transit and HOV Lane Projects

Author: Federal Transit Administration

Supporting Organization(s)/Contact: FTA, Office of Planning

Publication Year: 1994

Media: Printed Material

Key Words: HOV, transit

Abstract: This research will develop methods to evaluate multimodal alternatives for corridor analysis. Richard Marshment will present work during TRB week.

Ordering Information:

FTA, 400 7th Street, SW, Room 6100, Washington, DC 20590, Brian Jackson, fax 202-493-2478

Metropolitan Planning Technical Report Series

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division

Publication Year: On-going

Media: Printed Material

Key Words: land use, congestion management, ISTEA, TCM, CMS, MIS

Abstract: This series is used to distribute staff papers or material produced by others, including contractors. It was initiated to provide a quick and relatively easy way to get relevant information in the hands of practitioners in a timely manner. The MPTRs published and distributed to date include:

No. 1 — *Considering Land Use & Pricing in Metropolitan Transportation Planning*, March 1993

- Relationships Between Urban Form and Transportation: Implications for Long-Range Planning - Genevieve Giuliano
- The Impacts of Alternative Urban Development Patterns on Highway Systems Performance - Patrick DeCorla-Souza

- Results of Literature Survey and Summary of Findings: The Nature and Magnitude of Social Costs and Urban Roadway Use - Mark Hanson
- Region-wide Toll Pricing: Impacts on Urban Mobility, Environment, and Transportation Financing - Anthony R. Kane and Patrick DeCorla-Souza

No. 2 — *Congestion Management Systems*, July 1994

- Summary of Congestion Management System Activities in States and Metropolitan Planning Organizations - FHWA
- Analytical Procedures to Support a Congestion Management System: Literature Review and Initial Performance Measures - Cambridge Systematics, Inc, et. al.

No. 3 — *Small and Medium Size Urban Area Issues*

- Transportation Analysis Needs for Small and Medium Sized Urban Areas - Patrick DeCorla-Souza
- Growth Allocation by the Delphi Process - Arthur F. Gamble, et al.,
- *Cost Analysis*, A Least Total Cost Approach to Compare IVHS, Land Use, Management, and Multi-Modal Infrastructure Alternatives — Patrick DeCorla-Souza

No. 4 — *Programming ISTEA Funding* (two papers)

- Transportation Improvement Program Project Selection Process - Capital District Transportation Committee
- Maximizing Regional Transportation Investments in the ISTEA Era: A Guide for Programming ISTEA's Flexible Funds - Metropolitan Transportation Commission

No. 5 — *Transportation Control Measure Analysis*

- Transportation Control Measures Analyzed for the Washington Region's 15 Percent Rate of Progress Plan - Metropolitan Washington Council of Governments

No. 6 — *Evaluation of Transportation Alternatives*, September 1995

- Least-Cost Planning: Principles, Applications and Issues - ECO Northwest and Parsons, Brinckerhoff, Quade, and Douglas, Inc.

No. 7 — *Major Investment Studies (MIS)*, September 1995

- Case Study Examples of Corridor Planning - COMSIS Corporation and Parsons, Brinckerhoff, Quade, and Douglas, Inc.

No. 8 — *Developing Effective CMSs, Three Case Studies and Applications of Data Collection and Analytical Methods to Support CMS*, September 1995

- Developing Effective Congestion Management Systems - Arlene Willis and Monica Francois

No. 9 — *Developing Effective Congestion Management Practices: Part I*, May 1996

- Capital District (Albany, NY) Case Study: Congestion Management Systems Development - Capital District Transportation Committee

- Developing an Effective Congestion Management System: Report II - North Central Texas Council of Governments

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

MIS Desk Reference

Author: Parsons Brinckerhoff Quade & Douglas

Supporting Organization(s)/Contact: FTA; FHWA; National Transit Institute

Publication Year: 1995

Media: Electronic Media

Key Words: major investment studies, metropolitan planning, corridor planning

Abstract: Presents best professional practice for conducting a major investment study, stressing the flexibility of the MIS process. Chapters cover organization and management, public involvement, defining transportation problems, development and evaluation of alternatives, conceptual engineering and capital costing, operating and maintenance costing, travel demand forecasting, analysis of the relationship between land use and transportation, analysis of social, economic and environmental impacts, and financial analysis.

Ordering Information:

FTA, Brian Jackson, fax 202-493-2478

Moving Urban America, Special Report 237

Author: Transportation Research Board

Supporting Organization(s)/Contact: FHWA and FTA

Publication Year: 1992

Media: Printed Material

Key Words: metropolitan planning, ISTEA, MPO, 3C, transportation planning

Abstract: Seventh in a series of landmark conferences held since the late 1950s to anticipate and document major changes in urban transportation planning in the United States. This conference was convened shortly after passage of ISTEA to address implications for metropolitan transportation planning processes. The 150 participants represented a cross-section of MPOs, private groups, state DOTs and federal, state and local governments. Participants shared a tremendous feeling of optimism and empowerment, a marked difference from 10 years earlier when the last conference in the series was held. This enthusiasm was promoted by ISTEA's substantial flexibility, new programs, new transportation technologies, and link to the Clean Air Act. Conference consensus was that solutions to transportation problems that have broad appeal are hard to find; therefore, different solutions are needed in each region. Better partnerships must be developed to avoid paralysis of decision making and to respond to customer needs. A user-friendly system will require different ways of measuring costs and opportunities for travel for individuals and the system as a whole.

Ordering Information:

Transportation Research Board, 2101 Constitution Avenue, NW, Washington, DC 20418.

MPO Capacity: Improving the Capacity of Metropolitan Planning Organizations to Help Implement National Transportation Policies, Report A-130

Author: US Advisory Commission on Intergovernmental Relations

Supporting Organization(s)/Contact: FHWA and FTA

Publication Year: 1995

Media: Printed Material

Key Words: MPO, transportation planning, 3C, cooperative planning process, urban planning, ISTEA planning

Abstract: ISTEA (1991) created important new roles for the nation's 339 MPOs. This study addresses the question of MPO capacity. It begins with the hypothesis that many MPOs need help in fulfilling the expectations of ISTEA and outlines their initial experiences in trying to implement the law. The report addresses new field work on 18 MPOs serving 12 metropolitan areas. The findings cover an array of topics but generally point to a need for supporting activities to assist MPOs in addressing the challenges under ISTEA, even as many of them have undertaken substantial efforts to meet the new directions established by the legislation. The ACIR suggests several strategies for addressing these capacity needs, ranging from regulatory strategies that support rather than regulate, to direct technical assistance.

Ordering Information:

US Advisory Commission on Intergovernmental Relations, 800 K Street, NW, Washington, DC 20575

Multi-Criteria Equilibrium Traffic Assignment: Basic Theory and Elementary Algorithms

Author: Robert Dial, Volpe National Transportation Systems Center

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA, Brian Gardner, 202-366-4061

Publication Year: 1995

Media: Printed Material

Key Words: traffic assignment, time, cost, value of time

Abstract: T2 is a bicriterion equilibrium traffic assignment model that accurately forecasts path choices and consequent total arc flows for a stochastically diverse set of trips. Developed around a linear generalized cost model, T2 generalizes classical traffic assignment by relaxing the value-of-time parameter from a constant to a random variable with an arbitrary probability distribution. For the case where arc time and/or cost are flow-dependent, this paper formulates conditions and algorithms for stochastic bicriterion user-optimal equilibrium arc flows, which reflect every trip's exclusive use of a path that minimizes its particular perception of generalized cost.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Multi-Criteria Traffic Assignment

Author: Robert Dial, Volpe National Transportation Systems Center

Supporting Organization(s)/Contact: FHWA, Brian Gardner 202-366-4061, FTA, OST, and EPA

Publication Year: 1997

Media: Printed Material

Key Words: traffic assignment, time, cost, value of time

Abstract: This project will produce software which performs an equilibrium traffic assignment using time and cost as an independent criteria. This will allow assignments for travelers with different values of time, so that the impact of policies such as congestion pricing can be

assessed, recognizing that users will respond according to their individual values of time. The software is being implemented within TRANSCAD, however, the software design and documentation will allow its incorporation into other modeling packages.

Ordering Information:

Brian Gardner 202-366-4061

National Bicycle and Walking Study: Final Report and 24 Case Studies

Author: Highway Safety Research Center, University of North Carolina

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Planning Division, Barbara McMillen 202-366-4634

Publication Year: 1994

Media: Printed Material

Key Words: bicycle, walk, transportation, pedestrian

Abstract: The final report presents action plans for federal, State, and local activities required to increase the amount and safety of bicycling and walking for transportation purposes. The case studies are individual technical reports on specific issues relating to bicycling and walking as modes of transportation.

Ordering Information:

Report Number FHWA-PD-94-023, National Bicycle and Pedestrian Clearinghouse, 1506 21st Street NW, Washington, DC 20036

Network-Optimized Congestion Pricing: A Parable, Model, and Algorithm

Author: Robert Dial, Volpe National Transportation Systems Center

Supporting Organization(s)/Contact: FHWA, Brian Gardner 202-366-4061, FTA, OST, and EPA 1995

Publication Year: Printed Material

Media: tolls, traffic assignment, time, cost, value of time

Key Words: This paper recites a parable, formulates a model, and devises an algorithm for optimizing tolls on a road network. Such tolls induce an equilibrium traffic flow that is at once system-optimal and user-optimal.

Abstract: TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Ordering Information:

Pedestrian and Bicyclist Safety and Accommodations (NHI Course Number 38061)

Author: Drake and Associates

Supporting Organization(s)/Contact: FHWA, Office of Environment and Planning, Intermodal and Statewide Planning Division, John C. Fegan 202-366-5007

Publication Year: 1996

Media: Course and Printed Material

Key Words: pedestrian, bicyclist, safety, accommodations

Abstract: This course presents a comprehensive approach to providing pedestrian and bicyclist programs at the State and local levels. Engineering, education, enforcement, and promotional efforts to increase the use and safety of bicycling and walking as modes of transportation are discussed. Examples of successful programs are presented throughout the course.

Ordering Information:

National Highway Institute, 901 Stuart Street, Suite 300, Arlington, VA 22203

Peer Review Panel Functions and Organizations

Author: SG Associates, Inc.

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1994

Media: Printed Material

Key Words: travel demand forecasting, alternatives analysis, major investment studies, peer review

Abstract: Few individuals have had the opportunity to develop and apply more than one travel demand forecasting procedure. No individual can foresee all the issues that may arise in developing or applying a new model set. One approach to improving travel forecasting procedures has been the use of Peer Review Panels. This report describes how to establish a peer review group, how to organize peer review meetings, and post-meeting tasks.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Quick Response Manual for Freight Modeling and Planning by State DOTs & MPOs

Author: Dr. Harry Cohen, Cambridge Systematics; Dr. Alan Horowitz, University of Wisconsin - Milwaukee; and Arthur Sossiau, COMSIS Corporation

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning and Statewide Division, Intermodal Programs Divisions, Monica Francois 202-366-6072

Publication Year: 1996

Media: Printed Material

Key Words: freight, forecasting, statewide planning, commercial vehicles, data, planning

Abstract: The manual is technique- and application-based, patterned after NCHRP Report 187, A Quick Response Guide to Travel Demand Forecasting. The manual is designed for individuals at State DOTs and MPOs who have little experience with freight modeling and planning and includes case studies and examples of freight data collection and modeling.

Data sources and guidelines for data collection and application are discussed. Sample statistics are presented, e.g., unit costs, commodity densities, temporal distribution of truck trips, trip generation rates for terminals, rail yards and ports. Techniques are also presented for trip generation, truck trip tables, traffic assignment, time-of-day analysis, 4-step model parameters, measuring existing freight flows and projecting growth, site impact analysis, corridor analysis and small networks.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, 202-366-4054, fax 202-366-3713

Regional Forums on Congestion and Mobility: Proceedings

Author: Technautics, Inc.

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Office of Environment and Planning and ITS Joint Program Office, Charles R. Goodman 202-366-8070

Publication Year: 1996

Media: Printed Material

Key Words: congestion management, mobility, transportation planning

Abstract: Beginning in November 1995, a series of 1- to 2-day regional information Forums on Congestion and Mobility have been held in metropolitan areas across the United States. The common objective and theme of the various forums was to raise awareness of cost-effective, noncapital, management-type approaches to addressing metropolitan area congestion and mobility needs. The programs were targeted to transportation planners and decision-makers at the State, region, and local levels and involved peer-to-peer presentations of case study success stories in congestion relief. The proceedings document discussions held within the workshops of measurable impacts, as well as the processes by which these strategies were conceived and implemented through the metropolitan area planning processes. The proceedings also address the development of recommendations and priorities for future research in such areas as institutional issues, data needs, model development and training.

Ordering Information:

Charles R. Goodman 202-366-8070

Research Program Plan: Research Needs and Recommendations for CMS

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA

Publication Year: 1997 **Media:** Printed Material, Conference

Key Words: CMS, research, outreach

Abstract: This conference will be a significant effort to develop a long-range research program to support effective performance-based planning, congestion relief, and mobility management by states and regional governments. Background papers are being developed for a TRB conference to be held in the Spring of 1997.

Ordering Information:

Brian Gardner 202-366-4061

Short Term Travel Model Improvements

Author: Cambridge Systematics, Inc. with Barton Aschman Associates

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA, Ron Fisher 202-366-0096

Publication Year: 1995 **Media:** Printed Material

Key Words: travel demand forecasting, transportation modeling, assignment, air quality, land use, trip chaining, mode choice

Abstract: The purpose of this work is to identify potential short term improvements to the existing urban travel models. This will be accomplished by first documenting the most advanced techniques being used today and then identifying promising techniques which have not yet been put into practice. An overview report titled "Short Term Model Improvements" was completed in August 1994 and is now available from the Technology Sharing Program of the US DOT (Report No. DOT-T-95-05). This report highlights innovative applications and possible research. More detailed descriptions of each of the major innovative model applications in this report will be produced so that practitioners can better understand exemplary techniques being used around the country.

Ordering Information:

Request Report Number DOT-T- 95-05, Technology Sharing Program, U.S. Department of Transportation, Subsequent Distribution Office, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785, or order thru the World Wide Web, <http://www.tsp.dot.gov>

Site Design — Interim Report

Author: Federal Transit Administration

Supporting Organization(s)/Contact: FTA, Effie Stallsmith 202-366-5653

Publication Year: 1994

Media: Printed Material

Key Words: transit facility integration, location, access and design, livable communities

Abstract: This document brings together transit traffic engineering and urban design principles for the intent of improving the integration, location, access and design of transit facilities within the urban framework of each individual community. These facilities include stations, transfer centers, intermodal terminals and the associated supporting facilities for improved transit access and integration. The intended audience are the transit planners and engineers, local land use planners, zoning officials, and developers that can most benefit from the information and affect an improvement in the design of new urban and suburban sites to better accommodate public transit services and facilities.

Ordering Information:

FTA, Office of Planning, 400 7th Street, SW, (TPL-21), Room 6100, Washington, DC 20590, Effie S. Stallsmith (mailing label requested)

Standard Land Use Coding Manual

Author: American Planning Association

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division

Publication Year: 1999

Media: Printed Material

Key Words: land use, geographic area, land classification, land data

Abstract: The principal purpose of the project is to ensure that a broad variety of land-based data now being collected and stored at the local, regional, state, and national levels in a variety of formats and classification systems be standardized so that such data would be compatible and, thus, easily transferable between jurisdictions, agencies, and institutions. While the use of such a revamped system would be voluntary, potential users would be strongly inclined to embrace such a system because it would increase opportunities for reciprocal data-sharing, both horizontally, from geographic area to geographic area, and vertically, among local, regional, state, and national jurisdictions. In addition, the new and revised classification system will broaden the subject matter of the original 1965 Standard Land Use Coding Manual (SLUCM), which addressed only matters pertaining to land use. Presently, practitioners are collecting, storing, and manipulating three broad categories of land-based information: (1) land-cover information related primarily to the existing natural environment, (2) land-use information related primarily to the existing built environment and (3) land-rights information related primarily to fee and less-than-fee ownership and to development rights, such as those prescribed by zoning and other regulatory measures.

Ordering Information:

FHWA, 400 7th Street, SW, Washington, DC 20590, Jerry Everret 202-366-4079

Summary of Comments Prepared by Travel Forecasting Peer Review Panels

Author: SG Associates, Inc.

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1994

Media: Printed Material

Key Words: travel demand forecasting, alternatives analysis, major investment studies, peer review

Abstract: Few individuals have had the opportunity to develop and apply more than one travel demand forecasting procedure. No individual can foresee all the issues that may arise in developing or applying a new model set. One approach to improving travel forecasting procedures has been the use of Peer Review Panels. This report describes peer group comments obtained from reviews in eight metropolitan areas.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Synthesis of Congestion Management Planning and Program Development

Author: Cambridge Systematics, John Suhrbier and William Schwartz

Supporting Organization(s)/Contact: FHWA, Doug Laird 202-366-5972

Publication Year: 1997 **Media:** Printed Material

Key Words: congestion, congestion management, performance measures, performance thresholds, performance monitoring, mobility, accessibility, performance-based planning, system integration, data needs, multimodalism, before and after studies, effectiveness measures, strategies, strategy evaluation

Abstract: This report will provide a comprehensive reconnaissance, synthesis, and critique of congestion management planning activities throughout the United States. The purpose of this effort is to share noteworthy congestion management approaches and successes throughout the country with states and MPOs.

Ordering Information:

Doug Laird 202-366-5972

The Effects of Added Transportation Capacity - Conference Proceedings

Author: Gordon Shunk, Texas Transportation Institute

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1991 **Media:** Printed Material

Key Words: transportation, capacity, land use, travel demand forecasting models, transportation investment, induced travel, location decisions

Abstract: This report contains the presentation, main discussion points, and background papers for the conference held in Bethesda, Maryland in 1991.

Ordering Information:

Request Report Number DOT-T- 94-12, Technology Sharing Program, U.S. Department of Transportation, Subsequent Distribution Office, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785, or order thru the World Wide Web, <http://www.tsp.dot.gov>

TRANSIMS Model Design Criteria as Derived from Federal Legislation

Author: Jack Morrison and Verne Loose, Los Alamos National Labs

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1995 **Media:** Printed Material

Key Words: ISTEA, CAAAs, TRANSIMS, requirements, legislation

Abstract: As the initial step in formalizing the TRANSIMS design, This paper translates the analytical needs that are explicitly or implicitly derived from recent federal legislation into high-level simulation design.

Ordering Information:

Request Report Number DOT-T- 95-21, Technology Sharing Program, U.S. Department of Transportation, Subsequent Distribution Office, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785, or order thru the World Wide Web, <http://www.tsp.dot.gov>

TRANSIMS Project Description

Author: Gordon Shunk, Texas Transportation Institute

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1994 **Media:** Printed Material

Key Words: simulation, travel demand forecasting, Los Alamos National Labs, TRANSIMS, Travel Model Improvement Program, TMIP

Abstract: This report describes the TRANSIMS project, the development of a set of integrated analytical and simulation models and supporting databases being developed at the Los Alamos National Labs. The individual modules for TRANSIMS are described and a comparison is drawn between TRANSIMS and the traditional 4-step modeling process.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

TRANSIMS: Transportation Analysis and SIMulation System: Module Descriptions

Author: Los Alamos National Labs

Supporting Organization(s)/Contact: FHWA, FTA, OTA, and EPA

Publication Year: 1995 **Media:** Printed Material

Key Words: simulation, travel demand forecasting, Los Alamos National Labs, TRANSIMS, Travel Model Improvement Program, TMIP

Abstract: This document summarizes the TRANSIMS project, the system's major modules, and the project's near-term plans.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Transit Access Network Coding Guide

Author: SG Associates

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA, Ron Fisher 202-366-0096

Publication Year: 1997 **Media:** Printed Material

Key Words: travel demand forecasting, mode choice model, coding, transit network, transit access

Abstract: The objective of this project is to identify and document the best methods used in travel demand forecasting procedures to represent local topography, land use, and zonal access to transit. The strengths and weaknesses of each method also will be described. The interrelationships between the access representation methods, transit path building procedures and the mode choice model will be identified and documented. The product of

this work will be a manual describing the best practices for transit access representation and procedures for implementing these methods.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Transportation Planner's Handbook on Conversion Factors for the Use of Census Data

Author: COMSIS Corporation

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division

Publication Year: 1996

Media: Printed Material

Key Words: census, work drip, data

Abstract: Develop a handbook that provides a set of conversion factors for converting from journey to work data to inputs for transportation planning applications. Develop a set of conversion factors to convert census journey to work data to data usable for transportation planning applications. The handbook will be called "Transportation Planner's Handbook on Conversion Factors for the Use of Census Data" The conversion factors will be based on an analysis of urbanized area home interview data, transit on-board passenger survey data, and NPTS data in conjunction with CTPP data. A handbook of conversion factors.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Travel Model Improvement (TMIP) Newsletter

Author: Texas Transportation Institute and others

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: On-going

Media: Printed Material

Key Words: travel model improvement program, TRANSIMS, short-term model improvements, data, land use, technical assistance, training

Abstract: This newsletter reports on TMIP projects, conferences, and reports. Issued approximately three times per year, this newsletter is free to all those interested transportation modeling and the TMIP program.

Ordering Information:

Lynette Engelke, Texas Transportation Institute, 201 E. Abram, Suite 600, Arlington, TX 76010, fax (817)277-5439

Travel Model Improvement Program (TMIP) — Conference Proceedings

Author: Gordon Shunk and Patricia Bass, Texas Transportation Institute

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1995

Media: Printed Material

Key Words: travel demand forecasting, land use modeling, training, outreach, technical assistance, TRANSIMS, air quality, data

Abstract: This report contains workshop recommendations, presentation abstracts (including six presentations on TRANSIMS), and a list of attendees.

Ordering Information:

Request Report Number DOT-T- 95-13, Technology Sharing Program, U.S. Department of Transportation, Subsequent Distribution Office, Ardmore East Business Center, 3341 Q 75th Avenue, Landover, MD 20785, or order thru the World Wide Web, <http://www.tsp.dot.gov>

Travel Needs and Behavior of Zero Car Households

Author: To be announced

Supporting Organization(s)/Contact: FHWA, FTA

Publication Year: 1997

Media: Printed Material

Key Words: auto ownership, travel demand forecasting

Abstract: The 1990 census revealed that the number of households in the United States that do not own cars is down to about 11 percent. However, assuming "carlessness" is associated, in part, with the elderly, the aging of the baby boom generation can be expected to increase this number significantly. The objective of the research is to first understand and then develop techniques for analyzing and forecasting the access needs and travel behavior of individuals and households that do not own cars, with respect to trip-making, destination and mode choice. There will be deliverables at four points in the task: a technical memorandum at the conclusion of the literature search, a technical memorandum at the conclusion of the research into the travel characteristics of the carless, a technical report outlining the basic approach prior to development of techniques for improved forecasting and analysis techniques and a final report at the conclusion of the development of improved forecasting techniques including suggestions for further research. Work on this project will begin in the fall of 1996. For more information call Ron Fisher, of FTA, at 202-366-0257.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, 202-366-4054, fax 202-366-3713

Travel Survey and Data Collection Course (NHI Course Number 15134)

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA

Publication Year: 1996

Media: Course and Printed Material

Key Words: data, surveys, travel behavior

Abstract: The course is oriented toward those responsible for survey work and those who use the data collected, such as modeling practitioners. However, the course does not teach travel demand modeling explicitly. The course is designed to familiarize participants with the various types of travel surveys and to provide an understanding of the principles behind each, including the relationship of each survey to the travel forecasting process. The objective of the course is to prepare participants to develop and manage a process for implementing surveys in their own locales for the purpose of providing data for the travel forecasting process. Participants should be able to apply the principles learned during this

course to develop high-quality requests for proposals for survey efforts, effectively evaluate the proposals, and oversee the survey process. (Participants may have to enlist outside help, such as professional survey firms, to assist in the implementation of surveys.)

Ordering Information:

Technical questions, Jerry Everret, FHWA 202-366-4079

Course requests, Al Miller, NHI 703-235-0521

Travel Survey Manual

Author: Cambridge Systematics, Inc.

Supporting Organization(s)/Contact: FHWA, FTA, OST, and EPA

Publication Year: 1996

Media: Printed Material

Key Words: household surveys, transit on-board surveys, vehicle intercept surveys, commercial vehicle/freight surveys, workplace/establishment/visitor surveys, panel surveys, stated preference surveys, special generator surveys, and parking surveys

Abstract: This manual will provide information on the following kinds of surveys: household, transit on-board, vehicle intercept, commercial vehicle/freight, workplace/establishment/visitor, panel, stated preference, special generator and parking. For each of these survey types, the information will include: conduct of the survey, administration, design, sampling, data collection procedures, pre-testing and data entry, verification and analysis. In addition, survey forms, contacts and requests for proposals will be included. A course is also being developed based on this manual.

Ordering Information:

TMIP Report Request, c/o FHWA, 400 7th Street, SW, (HEP-20), Room 3232, Washington, DC 20590, 202-366-4054, fax 202-366-3713

Travel Time Data Collection Source Book

Author: Volpe National Transportation Systems Center

Supporting Organization(s)/Contact: FHWA, Monica Francois 202-366-5843, FTA, OST and EPA

Publication Year: 1997

Media: Printed Material

Key Words: travel time data collection

Abstract: The objective of this project is to develop guidance for travel time data collection. The document will be user-friendly and written in clear and concise language with graphics, charts, and tables for easy data presentation. The potential users include decision-makers, planners, and traffic engineers. The source book will help the users to:

- Identify travel time data needs in key areas of transportation planning applications.
- Compare the strengths, weaknesses, costs, and effectiveness of several data collections methodologies.
- Obtain guidance on sample design and sample size requirements for various transportation planning applications (facility type, level of congestion, level of precision).
- Develop a step-by-step process for conducting travel time surveys based on specific methodologies and requirements.

Ordering Information:

Monica Francois 202-366-5843

Travel Time Data Collection Using GPS Technologies

Author: JHK and Associates, David B. Rodin

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division, Doug Laird 202-366-5972

Publication Year: 1996

Media: Printed Material

Key Words: congestion, congestion management, performance measures, data collection, global positioning systems, performance monitoring, performance evaluation

Abstract: This study will demonstrate the benefits of GPS applications for travel time and speed data collection efforts. Benefits to this approach include more reliable and accurate data, reduced data collection costs and efforts, increased sample sizes, automated data processing and wider acceptance of baseline data. The study will also discuss the use of appropriate GPS hardware, data processing software, GIS interfaces, and other user requirements. Results will be published in an upcoming metropolitan transportation planning report.

Ordering Information:

FHWA, Administrative Support Team, 400 7th Street, SW, Room 3232, (HEP-20), Washington, DC 20590, fax 202-366-3713

Working Together On Transportation Planning - An Approach to Collaborative Decision Making

Author: National Association of Regional Councils, Donald Ostrander

Supporting Organization(s)/Contact: Office of Policy Development, FTA, William B. Menczer

Publication Year: 1995

Media: Printed Material

Key Words: innovation, public/private sector participation, flexible collaborative decisionmaking making strategies

Abstract: This report provides examples to MPOs and other transportation stakeholders for developing collaborative decision making processes for producing transportation plans and programs to meet the challenges of the CAAAs of 1990 and ISTEA. These laws empower MPOs, State DOTs, and the communities they serve to work together throughout the development and adoption of transportation plans. This report shows, through detailed examples and practical advice, how MPOs can design collaborative processes that fulfill the intent of these federal statutes and strengthen the plans produced by MPOs.

Ordering Information:

NTIS Order Number PB95-236659; FTA, Office of Policy Development, 400 7th Street, SW, Room 9103, Washington, DC 20590, William Menczer

Workshop on Transportation and Air Quality Analysis (NHI Course Number 15265)

Author: Federal Highway Administration

Supporting Organization(s)/Contact: FHWA, Metropolitan Planning Division

Publication Year: On-going

Media: Course and Printed Material

Key Words: air quality, travel demand forecasting

Abstract: This course provides a discussion of currently available analytical techniques for developing travel estimates for air quality analysis. The course is designed to provide each participant with a grasp of the technical issues regarding transportation, including mobile source emission analyses and understanding of both the capabilities and limitations

of available analysis tools. Additionally, participants will become familiar with techniques currently available for developing travel related data for mobile source emission inventories, analyzing transportation improvement programs/plans for conformity to SIPs, forecasting and tracking VMT, and evaluating TCMs.

Ordering Information:

Technical questions, Jerry Everret, FHWA 202-366-4079

Course requests, Al Miller, NHI 703-235-0521

PRODUCT TITLE INDEX

Title	Location
A Guide to Metropolitan Transportation Planning Under ISTEA: How the Pieces Fit Together	Metropolitan Planning — Policy/Guidance
A Guide to the Congestion Mitigation and Air Quality Improvement Program	Air Quality — Policy/Guidance
A Guidebook for Application of Hydrogeomorphic Assessments to Riverine Wetlands. Report number WRP-DE-11	Other Environmental, Social and Resource Impacts — Natural Resources
A Look at Our Nation's Highways	Other Environmental, Social and Resource Impacts — Social and Economic
A Manual of Regional Transportation Modeling Practice for Air Quality Analysis	Air Quality — Technical
A Sensitivity Evaluation of CAL3QHC Dispersion Model for Carbon Monoxide Analysis at Urban Intersections	Air Quality — Technical
A Summary — Air Quality Programs and Provisions of the Intermodal Surface Transportation Efficiency Act of 1991	Air Quality — Policy/Guidance
A Summary — Transportation Programs and Provisions of the Clean Air Act Amendments of 1990	Air Quality — Policy/Guidance
Activity Survey Analysis	Metropolitan Planning — Technical
Activity-Based Travel Demand Forecasting	Metropolitan Planning — Technical
Addressing Congestion Management System Requirements in Environmental Documents	Other Environmental, Social and Resource Impacts — Policy/Guidance
Advanced Travel Demand Forecasting (NHI Course Number 15260)	Metropolitan Planning — Technical
Air Quality Case Studies Report	Air Quality — Technical
Air Quality Programs & Provisions of the Intermodal Surface Transportation Efficiency Act of 1991: Summary	Air Quality — Policy/Guidance
Airport Access Planning Guide (Draft)	Metropolitan Planning — Technical
Alternative Share for Transportation Enhancements	Other Environmental, Social and Resource Impacts — Policy/Guidance
An Approach for Assessing Wetland Functions Using Hydrogeomorphic Classification, Reference Wetlands, and Functional Indices. Report number WRP-DE-9.	Other Environmental, Social and Resource Impacts — Natural Resources

Title	Location
An Intergovernmental Relations Consultation and Mitigation Systems Theory Model Addressing Indian Tribal Government Transportation Issues	Metropolitan Planning — Policy/Guidance
An Operational Description of TRANSIMS	Metropolitan Planning — Technical
Analytical Procedures to Support a Congestion Management System	Metropolitan Planning — Technical
Application of Geographic Information System for Transportation (NHI Course Number 15129)	General Planning — Technical
Assessment of Emerging Data Collection Practices to Support State and Regional Transportation Planning	Metropolitan Planning — Technical
Attention Motorists — The Bats Have Landed on Our Bridge	Other Environmental, Social and Resource Impacts — Natural Resources
Balancing Transportation and Preservation	Other Environmental, Social and Resource Impacts — Social and Economic
Bicriteria Assignment Model Testing	Metropolitan Planning — Technical
Bicycle and Pedestrian Planning Under ISTEA (NHI Course Number 15135)	Metropolitan Planning — Technical
Building on the Past, Traveling to the Future: A Preservationist's Guide to the ISTEA Transportation Enhancement Provision	Other Environmental, Social and Resource Impacts — Social and Economic
Building on the Past; Traveling to the Future — Transportation Enhancement Booklet — Cooperative Agreement with the National Trust for Historic Preservation	Other Environmental, Social and Resource Impacts — Social and Economic
Building Partnerships — Building Bridges	Other Environmental, Social and Resource Impacts — Natural Resources
Capital District (Albany, NY) Case Study - Congestion Management System Development: Task 1 Report	Metropolitan Planning — Policy/Guidance
Capital District (Albany, NY) Case Study - Congestion Management System Development: Task 1 Report	Metropolitan Planning — Technical
Case Studies for Corridor Planning Seminar	Metropolitan Planning — Technical
Cash Management Best Practices Guide	Transportation Finance — Technical
Census Transportation Planning Package (CTPP): A Video	Metropolitan Planning — Technical
Census Transportation Planning Package (CTPP): A Brochure	Metropolitan Planning — Technical
Census Transportation Planning Package (CTPP) Urban Element Technical Assistance	Metropolitan Planning — Technical

Title	Location
Challenges and Opportunities for Transportation Implementation of the Clean Air Act Amendments of 1990 and the Intermodal Surface Transportation Efficiency Act of 1991	Air Quality — Policy/Guidance
Characteristics of Urban Freight Systems (CUFS)	Metropolitan Planning — Technical
Clarification Metric Conversion for Environmental Documents	Other Environmental, Social and Resource Impacts — Policy/Guidance
Clean Air Briefs	Air Quality — Policy/Guidance
Clean Air Through Transportation: Challenges in Meeting National Air Quality Standards	Air Quality — Policy/Guidance
CMAQ FY '92 Program Annual Report	Air Quality — Policy/Guidance
CMAQ FY '93 Program Annual Report	Air Quality — Policy/Guidance
CMAQ FY '94 Program Annual Report	Air Quality — Policy/Guidance
Community Guide to Planning & Managing a Scenic Byway	Other Environmental, Social and Resource Impacts — Natural Resources
Community Impact Assessment: A Quick Reference for Transportation Analysts	Other Environmental, Social and Resource Impacts — Social and Economic
Community Impact Mitigation Case Studies	Other Environmental, Social and Resource Impacts — Social and Economic
Computer-Aided Tools and Technologies Used in Decision-Making and Presentation	Metropolitan Planning — Technical
Conference on Major Investment Studies in Transportation	Metropolitan Planning — Policy/Guidance
Conflicts on Multiple-Use Trails	Other Environmental, Social and Resource Impacts — Natural Resources
Conformity and Nitrogen Oxides (NO _x): Background and Case Studies	Air Quality — Technical
Conformity and the New Transportation Covenant	Air Quality — Policy/Guidance
Congestion Management for Technical Staff Course (NHI Course Number 15259)	Metropolitan Planning — Technical
Congestion Management Newsletter	Metropolitan Planning — Technical
Congestion Management Newsletter	Metropolitan Planning — Policy/Guidance
Congestion Management Resources Listing	Metropolitan Planning — Policy/Guidance
Congestion Management Resources Listing	Metropolitan Planning — Technical
Congestion Management System Case Study of the Washington Region, Task 1 Report: Activities to Date	Metropolitan Planning — Technical

Title	Location
Congestion Management System Development Program for the Puget Sound Region: Final Mid-Term Report	Metropolitan Planning — Technical
Congestion Management System Development Program for the Puget Sound Region: Final Mid-Term Report	Metropolitan Planning — Policy/Guidance
Congestion Management Systems, CD-ROM	Metropolitan Planning — Technical
Congestion Management Systems CD-ROM	Metropolitan Planning — Policy/Guidance
Corporate Amenities, Trip Chaining and Transportation Demand Management	Other Environmental, Social and Resource Impacts — Social and Economic
Costs and Effectiveness of Transportation Control Measures (TCMs): A Review and Analysis of the Literature	Air Quality — Technical
CTPP Handbook: An Instructional Guide to the 1990 Census Transportation Planning Package	Metropolitan Planning — Technical
Data Aggregation Issues in the Application of the MOBILE Emissions Model	Air Quality — Technical
Data Collection in the Portland Oregon Metropolitan Area	Metropolitan Planning — Technical
Department of Transportation Final Environmental Justice Strategy	Other Environmental, Social and Resource Impacts — Policy/Guidance
Department of Transportation Proposed Order to Address Environmental Justice in Minority Populations and Low-Income Populations	Other Environmental, Social and Resource Impacts — Policy/Guidance
Developing an Effective Congestion Management System, Report 1: Dallas/Ft. Worth, TX, Case Study	Metropolitan Planning — Technical
Developing an Effective Congestion Management System - Report 1: Dallas/Ft. Worth, TX, Case Study	Metropolitan Planning — Policy/Guidance
Development of Diurnal Traffic Distribution and Daily, Peak, and Off-Peak Vehicle Speed Estimation Procedures for Air Quality Planning	Metropolitan Planning — Technical
Development of GIS Procedures for Impact Analysis of Transportation Alternatives	Metropolitan Planning — Technical
Development of Integrated Transportation Information System (ITIS): Practitioners Handbook	General Planning — Technical
Development of Procedures to Integrate Travel Demand Models, Traffic Simulation Models and GIS	Metropolitan Planning — Technical

Title	Location
Effects of Land Use and TDM Strategies on Commuting Behavior	Metropolitan Planning — Technical
Efficient Suburban Activity Centers	Metropolitan Planning — Policy/Guidance
Eligibility of Historic Preservation Work for Transportation Enhancement Funding	Other Environmental, Social and Resource Impacts — Policy/Guidance
Emerging Issues in Transportation and Water Quality	Other Environmental, Social and Resource Impacts — Natural Resources
Enhanced Planning Review of the Honolulu, HI Metropolitan Area	Metropolitan Planning — Technical
Enhanced Planning Review of the New York City Metropolitan Area	Metropolitan Planning — Technical
Enhanced Planning Review of the Salt Lake and Ogden Metropolitan Area	Metropolitan Planning — Technical
Environmental and Planning Programs Stewardship Information	Other Environmental, Social and Resource Impacts — Policy/Guidance
Environmental Excellence Awards	Other Environmental, Social and Resource Impacts — Natural Resources
Environmental Excellence Awards - 1995	Other Environmental, Social and Resource Impacts — Natural Resources
Environmental Flowcharts	Other Environmental, Social and Resource Impacts — Policy/Guidance
Environmental Policy Statement	Other Environmental, Social and Resource Impacts — Policy/Guidance
Environmental Programs and Provisions of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)	Other Environmental, Social and Resource Impacts — Policy/Guidance
Environmental Programs Stewardship Related to Quarterly Obligations	Other Environmental, Social and Resource Impacts — Policy/Guidance
Environmental Research Needs in Transportation	Other Environmental, Social and Resource Impacts — Natural Resources
EPA's Final Rule on Transportation Conformity	Air Quality — Policy/Guidance
EPA's First Amendment to the Transportation Conformity Rule	Air Quality — Policy/Guidance
EPA's Notice of Proposed Rulemaking (NPRM) on the Conformity Pilot Program	Air Quality — Policy/Guidance
EPA's Second Amendment to the Transportation Conformity Rule	Air Quality — Policy/Guidance
EPA's Third Set of Amendments to the Transportation Conformity Rule	Air Quality — Policy/Guidance
Estimating the Impacts of Urban Transportation Alternatives (NHI Course Number 15257)	Metropolitan Planning — Technical

Title	Location
Evaluating the Operational Impacts of Access Control Strategies Using TRAF-NETSIM	Metropolitan Planning — Technical
Evaluation and Management of Highway Runoff Water Quality (Water Quality Synthesis)	Other Environmental, Social and Resource Impacts — Natural Resources
Evaluation of Intermodal Passenger Transfer Facilities	Metropolitan Planning — Technical
Evaluation of the MOBILE Vehicle Emission Model	Air Quality — Technical
Evaluation of Wetland Mitigation Measures	Other Environmental, Social and Resource Impacts — Natural Resources
Examples of Statewide Transportation Planning Practices	Statewide Planning — Policy/Guidance
Excellence In Highway Design, Graphic Database CD — 1996	Other Environmental, Social and Resource Impacts — Natural Resources
Exemplary Erosion Control and Roadside Vegetation Project on the Idaho/Montana State Line	Other Environmental, Social and Resource Impacts — Natural Resources
Experiences in Overcoming Federal, State, and Local Legislative/Administrative Barriers to Implementing Public-Private Highway Projects	Transportation Finance — Technical
Feasibility Study of Using Commercial Data for Transportation Planning	Metropolitan Planning — Technical
FHWA/FTA Interim Policy on Public Involvement and FHWA/FTA Questions and Answers on Public Involvement in Transportation Decisionmaking — FHWA/FTA Policy and Guidance on Public Involvement	Other Environmental, Social and Resource Impacts — Policy/Guidance
FHWA Sanction Exemption Criteria	Air Quality — Policy/Guidance
Financial Planning and Programming for MPOs (NHI Course Number 9402)	Transportation Finance — Technical
Financial Planning in ISTEA for MPO Staff	Transportation Finance — Technical
Financial Planning Software	Transportation Finance — Technical
Flexible Funding Opportunities for Transportation Investments	Air Quality — Policy/Guidance
Flexible Funding Opportunities for Transportation Investments	Metropolitan Planning — Policy/Guidance
Freight Forecasting Conference Proceedings	Metropolitan Planning — Technical
Funding for Establishment of Wetland Mitigation Banks Memorandum	Other Environmental, Social and Resource Impacts — Natural Resources

Title	Location
Geographic Information System for Transportation Symposium, Summary Report 1996	General Planning — Technical
Geographic Information System for Transportation Symposium, Proceedings 1996	General Planning — Technical
Geographic Information System for Transportation Symposium, Summary Report 1995	General Planning — Technical
Geographic Information System for Transportation Symposium, Proceedings 1995	General Planning — Technical
GIS Applications for CMS	Metropolitan Planning — Technical
Greener Roadsides	Other Environmental, Social and Resource Impacts — Natural Resources
Guidance for Estimation of Logit Models	Metropolitan Planning — Policy/Guidance
Guidance for Estimation of Logit Models	Metropolitan Planning — Technical
Guidance on the Development of Logical Project Termini	Other Environmental, Social and Resource Impacts — Policy/Guidance
Guidance Update on the Congestion Mitigation and Air Quality Improvement Program	Air Quality — Policy/Guidance
Guide on Evaluation and Attenuation of Traffic Noise	Other Environmental, Social and Resource Impacts — Noise
Guidelines for the Development of Wetland Mitigation Areas	Other Environmental, Social and Resource Impacts — Policy/Guidance
Highway Traffic Noise	Other Environmental, Social and Resource Impacts — Noise
Highway Traffic Noise Analysis and Abatement: Policies and Guidance	Other Environmental, Social and Resource Impacts — Noise
Highway Traffic Noise Barrier Construction Trends	Other Environmental, Social and Resource Impacts — Noise
Highway Traffic Noise in the United States: Problem and Response	Other Environmental, Social and Resource Impacts — Noise
Highways and the Environment: Innovative Mitigation	Other Environmental, Social and Resource Impacts — Natural Resources
Historically Black College and University (HBCU) Project with South Carolina State University -- Social Impact Assessment for Beauford, SC	Other Environmental, Social and Resource Impacts — Social and Economic
Historically Black College and University (HBCU) Project with South Carolina State University -- Multi-Media Technology Video Tapes	Other Environmental, Social and Resource Impacts — Social and Economic

Title	Location
Historically Black College and University (HBCU) Project with South Carolina State University -- Environment Curriculum Development	Other Environmental, Social and Resource Impacts — Social and Economic
Historically Black College and University (HBCU) Project with South Carolina State University -- Summer/National Transportation Institute 1993-96	Other Environmental, Social and Resource Impacts — Social and Economic
How to Pass a Local Option Tax for Financing Transportation Projects	Transportation Finance — Technical
Identification of Transportation Planning Data Requirements in Federal Legislation	Metropolitan Planning — Policy/Guidance
Identification of Transportation Planning Data Requirements in Federal Legislation	Metropolitan Planning — Technical
Impact of Local Option Highway Taxes on State Highway Programming and Aid	Transportation Finance — Technical
Implementing Transit-Based Residential Development in the United States (Applied Research)	Other Environmental, Social and Resource Impacts — Policy/Guidance
Incorporating Feedback in Travel Forecasting: Methods, Pitfalls, and Common Concerns	Metropolitan Planning — Technical
Innovations in Public Involvement in Transportation Planning	General Planning — Technical
Innovations in Transportation and Air Quality	Air Quality — Policy/Guidance
Institutional Aspects of Transportation Planning, Transportation Research Circular Number 450	Metropolitan Planning — Policy/Guidance
Institutional Aspects of Transportation Planning, Transportation Research Circular Number 450	Metropolitan Planning — Technical
Integrated Transportation and Land Use Forecasting: Sensitivity Tests of Alternative Model System Configuration	Metropolitan Planning — Technical
Integrating Environmental Considerations Into Transportation Planning Proceedings	Other Environmental, Social and Resource Impacts — Policy/Guidance
Integrating Transportation Information, Demonstration Project 113	General Planning — Technical
Integrating Transportation Information Systems: A Manager's Handbook	General Planning — Technical
Interim Guidance on Applying Section 4(f) on Transportation Enhancement Projects and National Recreational Trails Projects	Other Environmental, Social and Resource Impacts — Policy/Guidance

Title	Location
Intermodal Freight Transportation Volume I: Overview of Impediments, Data Sources for Intermodal Transportation Planning, and Annotated Bibliography Volume II: Fact Sheet and Federal-Aid Eligibility	Metropolitan Planning — Technical
Intermodal Freight Transportation: It's Goods for You!	Metropolitan Planning — Technical
Intermodal Technical Assistance for Transportation Planners and Policymakers	General Planning — Technical
Intrinsic Qualities Handbook: A Field Assessment Guide	Other Environmental, Social and Resource Impacts — Natural Resources
Introduction to Urban Travel Demand Forecasting (NHI Course Number 15254)	Metropolitan Planning — Technical
Investigation of Transit Transfer Penalties ISTEA Management Systems for Transit Operators (NHI Course Number 9403)	Metropolitan Planning — Technical General Planning — Technical
Joint Development Entrepreneurial Study	Other Environmental, Social and Resource Impacts — Policy/Guidance
Joint Memorandum on Implementation of the Intermodal Surface Transportation Act	Other Environmental, Social and Resource Impacts — Policy/Guidance
Land Transportation Access to Ports and Marine Terminals	Statewide Planning — Technical
Land Transportation Access to Ports and Marine Terminals	Metropolitan Planning — Technical
Land Use Forecasting Conference Proceedings	Metropolitan Planning — Technical
Land Use Policies and Social, Environmental and Public Infrastructure and Service Costs	Metropolitan Planning — Policy/Guidance
Linking the Delta with the Nation and the World	Other Environmental, Social and Resource Impacts — Social and Economic
Major Investment Studies (NHI Course Number 9401)	Transportation Finance — Technical
Measuring and Monitoring Congestion: Three Case Studies	Metropolitan Planning — Technical
Measuring and Monitoring Congestion: Three Case Studies	Metropolitan Planning — Policy/Guidance
Methodologies for Evaluating Bus Transit and HOV Lane Projects	Metropolitan Planning — Technical
Metropolitan Planning Technical Report Series MIS Case Studies	Metropolitan Planning — Technical Metropolitan Planning — Policy/Guidance

Title	Location
MIS Desk Reference	Metropolitan Planning — Technical
MIS Questions and Answers	Metropolitan Planning — Policy/Guidance
MIS Teleconference	Metropolitan Planning — Policy/Guidance
Moving Urban America	Metropolitan Planning — Policy/Guidance
Moving Urban America, Special Report 237	Metropolitan Planning — Technical
MPO Capacity: Improving the Capacity of Metropolitan Planning Organizations to Help Implement National Transportation Policies, Report A-130	Metropolitan Planning — Technical
MPO Capacity: Improving the Capacity of Metropolitan Planning Organizations to Help Implement national Transportation Policies, Report A-130	Metropolitan Planning — Policy/Guidance
Multi-Criteria Equilibrium Traffic Assignment: Basic Theory and Elementary Algorithms	Metropolitan Planning — Technical
Multi-Criteria Traffic Assignment	Metropolitan Planning — Technical
Multimodal Strategies: Development of Benefit-Cost Analysis Procedures	Metropolitan Planning — Policy/Guidance
National Academy of Sciences Wetlands Task Force Report: Wetlands, Characteristics and Boundaries	Other Environmental, Social and Resource Impacts — Natural Resources
National Bicycle and Walking Study: Final Report and 24 Case Studies	Metropolitan Planning — Technical
National Evaluation of Water Quality Issues for Highway Planning	Other Environmental, Social and Resource Impacts — Natural Resources
National Highway Planning Network 2.02	General Planning — Technical
National Recreational Trails Advisory Committee Annual Report for FY 1994	Other Environmental, Social and Resource Impacts — Natural Resources
National Recreational Trails Advisory Committee Annual Report for FY 1993	Other Environmental, Social and Resource Impacts — Natural Resources
Network-Optimized Congestion Pricing: A Parable, Model, and Algorithm	Metropolitan Planning — Technical
Non-Federal Applications of the Highway Performance Monitoring System	Statewide Planning — Technical
Nondiscrimination, Environmental Justice, and Community Impact Assessment in Planning and Project Development	Other Environmental, Social and Resource Impacts — Policy/Guidance
On the Right Track	Other Environmental, Social and Resource Impacts — Policy/Guidance
Ozone Trends in Severe and Serious Non-Attainment Areas	Air Quality — Technical

Title	Location
Parallel Barrier Effectiveness Under Free-Flowing Traffic Conditions	Other Environmental, Social and Resource Impacts — Noise
Parallel Noise Barrier Effectiveness	Other Environmental, Social and Resource Impacts — Noise
Participate in Archeology	Other Environmental, Social and Resource Impacts — Social and Economic
Participation in Funding for Ecological Mitigation	Other Environmental, Social and Resource Impacts — Natural Resources
Participation in Funding for Ecological Mitigation-Memorandum	Other Environmental, Social and Resource Impacts — Natural Resources
Particulate Matter Guidance Document	Air Quality — Policy/Guidance
Pedestrian and Bicyclist Safety and Accommodations (NHI Course Number 38061)	Metropolitan Planning — Technical
Peer Review Panel Functions and Organizations	Metropolitan Planning — Technical
Planning and Environmental Training Catalogue	General Planning — Policy/Guidance
Planning and Environmental Training Catalogue	General Planning — Technical
Planning and Environmental Training Catalogue	Metropolitan Planning — Policy/Guidance
Planning, Developing, and Implementing Community-Sensitive Transit	Other Environmental, Social and Resource Impacts — Social and Economic
Plant a Legacy . . . Support “America’s Treeways”	Other Environmental, Social and Resource Impacts — Natural Resources
Position Paper on Secondary and Cumulative Impact Assessment	Other Environmental, Social and Resource Impacts — Policy/Guidance
Potential for Geographic Information System for Transportation: An Overview	General Planning — Technical
Probabilistic Risk Analysis for Turnkey Construction: a Case Study	General Planning — Technical
Proceedings of National Conference on Transportation Programming Methods and Issues	General Planning — Policy/Guidance
Promoting Environmental Sensitivity: Business Organization and Operations	Other Environmental, Social and Resource Impacts — Natural Resources
Public Involvement in Transportation Decisionmaking: Effective Techniques and Processes (NHI Course Number 9404)	Statewide Planning — Technical
Public Involvement Techniques for Transportation Decisionmaking	General Planning — Technical
Qualitative Assessment of IVHS Emission and Air Quality Impacts	Air Quality — Technical
Quick Response Manual for Freight Modeling and Planning by State DOTs & MPOs	Metropolitan Planning — Technical

Title	Location
Regional Forums on Congestion and Mobility: Proceedings	Metropolitan Planning — Technical
Regional Forums on Congestion and Mobility - Proceedings	Metropolitan Planning — Policy/Guidance
Report on Funding Levels and Allocations of Funds	Metropolitan Planning — Policy/Guidance
Research Program Plan: Research Needs and Recommendations for CMS	Metropolitan Planning — Technical
Research Program Plan: Research Needs and Recommendations for CMS	Metropolitan Planning — Policy/Guidance
Results of Wetlands Mitigation Associated with Highway Projects	Other Environmental, Social and Resource Impacts — Natural Resources
Retention, Detention, and Overland Flow for Pollutant Removal from Highway Stormwater Runoff	Other Environmental, Social and Resource Impacts — Natural Resources
Revised Congestion Mitigation and Air Quality Improvement Program (CMAQ)	General Planning — Policy/Guidance
Roadside Noise Abatement	Other Environmental, Social and Resource Impacts — Noise
Scenic Byways Advisory Committee Report to Congress	Other Environmental, Social and Resource Impacts — Natural Resources
Scenic Byways Multimedia Presentation	Other Environmental, Social and Resource Impacts — Natural Resources
Short Term Travel Model Improvements	Metropolitan Planning — Technical
Site Design — Interim Report	Metropolitan Planning — Technical
Sourcebook on Transit-Related Environmental Regulations	Other Environmental, Social and Resource Impacts — Policy/Guidance
Standard Land Use Coding Manual	Metropolitan Planning — Technical
Statewide Planning and Metropolitan Planning: Rule	Statewide Planning — Policy/Guidance
Statewide Planning; and Metropolitan Planning: Rule	Metropolitan Planning — Policy/Guidance
Statewide Transportation Planning Under ISTEA: A New Framework for Decision Making	Statewide Planning — Policy/Guidance
Summary of Comments Prepared by Travel Forecasting Peer Review Panels	Metropolitan Planning — Technical
Summary of Environmental Legislation	Other Environmental, Social and Resource Impacts — Policy/Guidance
Summary of Noise Barriers Constructed by December 1992	Other Environmental, Social and Resource Impacts — Noise

Title	Location
Synthesis of Congestion Management Planning and Program Development	Metropolitan Planning — Policy/Guidance
Synthesis of Congestion Management Planning and Program Development	Metropolitan Planning — Technical
Technical Methodologies for Financial Planning	Transportation Finance — Technical
Texas Aquifer Study Offers Clues to Controlling Highway Runoff	Other Environmental, Social and Resource Impacts — Natural Resources
The Ecosystem Approach and Transportation Development	Other Environmental, Social and Resource Impacts — Natural Resources
The Effects of Added Transportation Capacity - Conference Proceedings	Metropolitan Planning — Technical
The Executive Memorandum on Landscaping	Other Environmental, Social and Resource Impacts — Natural Resources
The Federal Highway Administration as a Wetland Mitigation Bank User	Other Environmental, Social and Resource Impacts — Policy/Guidance
The MOBILE Model and Transportation Planning: A Brief Overview	Air Quality — Technical
The National Recreational Trails Funding Program	Other Environmental, Social and Resource Impacts — Natural Resources
Threatened and Endangered Species Listings Memorandum	Other Environmental, Social and Resource Impacts — Natural Resources
TRANSIMS Model Design Criteria as Derived from Federal Legislation	Metropolitan Planning — Technical
TRANSIMS Project Description	Metropolitan Planning — Technical
TRANSIMS: Transportation Analysis and Simulation System: Module Descriptions	Metropolitan Planning — Technical
Transit Access Network Coding Guide	Metropolitan Planning — Technical
Transit Noise and Vibration Impact Assessment	Other Environmental, Social and Resource Impacts — Noise
Transit Ridership Initiative	Metropolitan Planning — Policy/Guidance
Transportation Enhancement Activities	Metropolitan Planning — Policy/Guidance
Transportation Enhancement Conference Notebook	Other Environmental, Social and Resource Impacts — Policy/Guidance
Transportation Planner's Handbook on Conversion Factors for the Use of Census Data	Metropolitan Planning — Technical
Transportation Planning Requirements of the Federal Clean Air Act Amendments (CAAAAs) of 1990: A Highway Perspective (ASCE Transportation Planning and Air Quality)	Air Quality — Policy/Guidance
Transportation Planning — The Watershed Connection	Other Environmental, Social and Resource Impacts — Natural Resources

Title	Location
Travel Model Improvement (TMIP) Newsletter	Metropolitan Planning — Technical
Travel Model Improvement Program (TMIP) — Conference Proceedings	Metropolitan Planning — Technical
Travel Needs and Behavior of Zero Car Households	Metropolitan Planning — Technical
Travel Survey and Data Collection Course (NHI Course Number 15134)	Metropolitan Planning — Technical
Travel Survey Manual	Metropolitan Planning — Technical
Travel Time Data Collection Source Book	Metropolitan Planning — Technical
Travel Time Data Collection Using GPS Technologies	Metropolitan Planning — Technical
Use of Private Wetland Mitigation Banks Memorandum	Other Environmental, Social and Resource Impacts — Policy/Guidance
Use of Private Wetland Mitigation Banks as Compensatory Mitigation for Highway Project Impacts Memorandum	Other Environmental, Social and Resource Impacts — Natural Resources
Usefulness of Financial Plans to MPO Policy Board	Transportation Finance — Technical
Visual Database of Transportation Enhancements CD-ROM	Other Environmental, Social and Resource Impacts — Natural Resources
Water Quality Action Plans Memorandum	Other Environmental, Social and Resource Impacts — Policy/Guidance
Water Quality Research Needs in Transportation	Other Environmental, Social and Resource Impacts — Natural Resources
WEThings; Wetland Habitat Indicators for Non-Game Species -Wetland Dependent Amphibians, Reptiles, and Mammals of New England (TEI Publication Number 94-1)	Other Environmental, Social and Resource Impacts — Natural Resources
Wetland Banking and Banking Agreements Memorandum	Other Environmental, Social and Resource Impacts — Natural Resources
Wetlands and Highways — A Natural Approach	Other Environmental, Social and Resource Impacts — Natural Resources
Wildflowers and the Federal-Aid Highway Program	Other Environmental, Social and Resource Impacts — Natural Resources
Working Together on Transportation Planning: An Approach to Collaborative Decision Making	General Planning — Policy/Guidance
Working Together On Transportation Planning - An Approach to Collaborative Decision Making	Metropolitan Planning - Technical
Working Together On Transportation Planning - An Approach to Collaborative Decision Making	Metropolitan Planning — Policy/Guidance

Title	Location
Workshop on Transportation & Air Quality Analysis (NHI Course Number 15265)	Metropolitan Planning — Policy/Guidance
Workshop on Transportation and Air Quality Analysis (NHI Course Number 15265)	Metropolitan Planning — Technical

STAFF DIRECTORY

AIR QUALITY — POLICY/GUIDANCE

400 7th Street, SW
Washington, DC 20590

Eleanora Babij, Team Leader

Phone 202-366-9196, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning
Environmental Analysis Division, Program Support Team, HEP-40

Subject Areas: environmental research

Noreen Bowles, Secretary

Phone 202-366-9173, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning
Environmental Analysis Division, Program Support Team, HEP-40

Subject Areas: technical and software support, systems analysis, HTML authoring, computer graphics

Adrica Coates, Program Support Assistant

Phone 202-366-6724, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning
Environmental Analysis Division, Program Support Team, HEP-40

Subject Areas: administrative support

Kirk D. Fauver, Air Quality Specialist

Phone 202-366-2079, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning
Environmental Analysis Division, Air Quality Policy Team, HEP-40

Subject Areas: transportation conformity and air quality policy, highway sanctions, global climate change

Ginny Finch, Program Analyst

Phone 202-366-4258, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning
Environmental Analysis Division, Program Support Team, HEP-40

Subject Areas: marketing, staff writer, and communications

Lucy Garliauskas, Community Planner

Phone 202-366-2068, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning
Environmental Analysis Division, Air Quality Policy Team, HEP-40

Subject Areas: Transportation conformity and air quality policy

Cecilia Ho, Community Planner

Phone 202-366-9862, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Air Quality Policy Team, HEP-40

Subject Areas: transportation conformity and air quality policy, TCM analysis, global warming, performance measures

Phillis Johnson-Ball, Air Quality Specialist

Phone 202-366-5448, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Air Quality Policy Team, HEP-40

Subject Areas: transportation and air quality policy, CMAQ program

Mike Koontz, Community Planner

Phone 202-366-0639, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Air Quality Policy Team, HEP-40

Subject Areas: transportation conformity, SIP issues

Victoria B. Martinez, Air Quality Specialist

Phone 202-366-2077, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Air Quality Policy Team, HEP-40

Subject Areas: transportation and air quality policy, public outreach

Mike Savonis, Team Leader

Phone 202-366-2080, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Air Quality Policy Team, HEP-40

Subject Areas: transportation and air quality policy, CMAQ Program

Alicia Sharp, Secretary

Phone 202-366-4836, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Program Support Team, HEP-40

Subject Areas: administrative support

Jim Shrouds, Division Chief

Phone 202-366-2074, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, HEP-40

Subject Areas: environmental policy

STAFF DIRECTORY
AIR QUALITY — TECHNICAL

400 7th Street, SW
Washington, DC 20590

Kevin Black, Highway Engineer

Phone 202-366-9485, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning
Environmental Analysis Division, Air Quality Technical Team, HEP-40

Subject Areas: air pollution analysis — project level

Dr. Joon Byun, Environmental Protection Specialist

Phone 202-366-2204, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning
Environmental Analysis Division, Air Quality Technical Team, HEP-40

Subject Areas: regional transportation air quality analysis

Dick Schoeneberg, Team Leader

Phone 202-366-2076, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning
Environmental Analysis Division, Air Quality Technical Team, HEP-40

Subject Areas: transportation, air pollution analysis

STAFF DIRECTORY
OTHER ENVIRONMENTAL, SOCIAL AND RESOURCE IMPACTS
NATURAL RESOURCES

400 7th Street, SW
Washington, DC 20590

Fred Bank, Team Leader

Phone 202-366-5004, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Natural & Cultural Resources Team, HEP-40

Subject Areas: general environmental science

Patricia Cazenias, Environmental Protection Specialist

Phone 202-366-4085, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Natural & Cultural Resources Team, HEP-40

Subject Areas: water quality

Bruce Eberle, Environmental Specialist

Phone 202-366-2060, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Natural & Cultural Resources Team, HEP-40

Subject Areas: historic and archaeological preservation, design art and architecture, Native American cultural issues

Paul Garrett, Ecologist

Phone 202-366-2067, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Natural & Cultural Resources Team, HEP-40

Subject Areas: wetlands, endangered species, habitat

Bonnie Harper-Lore, Landscape Architect

Phone 612-290-3233, Fax 612-290-3256

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Natural & Cultural Resources Team, HEP-40

Subject Areas: vegetation management, wildflowers, roadside management

STAFF DIRECTORY
OTHER ENVIRONMENTAL, SOCIAL AND RESOURCE IMPACTS
NOISE

400 7th Street, SW
Washington, DC 20590

Bob Armstrong, Team Leader

Phone 202-366-2073, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Noise Team, HEP-40

Subject Areas: noise, noise analysis, noise measurement, noise prediction, STAMINA 2.0, TNM, traffic noise impacts, noise abatement, construction noise, noise-compatible development

Steve Ronning, Highway Engineer

Phone 202-366-2078, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Analysis Division, Noise Team, HEP-40

Subject Areas: noise, noise analysis, noise measurement, noise prediction, STAMINA 2.0, TNM, traffic noise impacts, noise abatement, construction noise, noise-compatible development

STAFF DIRECTORY
OTHER ENVIRONMENTAL, SOCIAL AND RESOURCE IMPACTS
SOCIAL AND ECONOMIC

400 7th Street, SW
Washington, DC 20590

Sharon Bauckman, Community Planner

Phone 202-366-6825, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division

Community Impacts and Transportation Enhancement Team, HEP-30

Subject Areas: design, green book, brochures, transportation enhancements

Susan Borinsky, Environmental Protection Specialist

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Office of Innovation and Analysis, Analysis Division, TPL-22

Subject Areas: environmental impact statements, environmental assessments, joint development

Sheila A. Cohen, Community Planner

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Office of Innovation and Analysis, Analysis Division, TPL-22

Subject Areas: environmental impact statements, major investment studies

Donald J. Emerson, Division Chief

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Office of Innovation and Analysis, Analysis Division, TPL-22

Subject Areas: major investment studies, new starts planning and project development, new starts policy and ratings process, environmental impact statements, land use studies, evaluation of alternatives

Brenda C. Kragh, Social Science Analyst

Phone 202-366-2064, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division

Community Impacts and Transportation Enhancement Team, HEP-30

Subject Areas: community impacts, Title VI

Florence Mills, Community Planner

Phone 202-366-2062, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, Strategic Team, HEP-30

Subject Areas: public involvement, citizen participation

A. Joseph Ossi, Environmental Protection Specialist

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Innovation and Analysis

Analysis Division, TPL-22

Subject Areas: environmental impact statements, environmental assessments, Section 4(f), Section 106, noise, air quality, hazardous materials

Harold Peaks, Team Leader

Phone 202-366-1598, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, Community Impacts & Transportation Enhancement Team, HEP-30

Subject Areas: transportation enhancement, community impact, NEPA

Sharon Pugh, Community Planner

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Innovation Division, TPL-21

Subject Areas: joint development, urban design

Nancy S. Strine, Community Planner

Phone 202-366-8051, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Innovation Division, TPL-21

Subject Areas: innovative finance, NTI Course Financial Planning and Programming for MPOs, fiscal constraints, risk management

Robert H. Wheeler, Transportation Specialist

Phone 202-366-3409, Fax 202-366-2029

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, Strategic Team, HEP-30

Subject Areas: corridor preservation, environmental training center

STAFF DIRECTORY
OTHER ENVIRONMENTAL, SOCIAL AND RESOURCE IMPACTS
POLICY/GUIDANCE

400 7th Street, SW
Washington, DC 20590

Eugene W. Cleckley, Division Chief

Phone 202-366-0106, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, HEP-30

Subject Areas: environmental leadership, NEPA, environmental justice

Leland W. Dong, Project Development Specialist

Phone 202-366-2054, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, Project Development Team, HEP-30

Subject Areas: NEPA, Section 4(f), interagency coordination, environmental policy

Kreig Larson, Project Development Specialist

Phone 202-366-2056, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, Project Development Team, HEP-30

Subject Areas: NEPA, interagency coordination, environmental policy, Section 4(f)

Christopher Newman, Project Development Specialist

Phone 202-366-8994, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, Project Development Team, HEP-30

Subject Areas: NEPA, Section 4(f), interagency, coordination, environmental policy

Kathleen A. Schnell, Secretary

Phone 202-366-0106, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, Support Team, HEP-30

Subject Areas: administrative support

Fred Skaer, Team Leader

Phone 202-366-2058, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, Project Development Team, HEP-30

Subject Areas: NEPA, Section 4(f), environmental policy

Benita Smith, Secretary

Phone 202-366-2065, Fax 202-366-3409

Federal Highway Administration, Office of Environment and Planning

Environmental Operations Division, Support Team, HEP-30

Subject Areas: administrative support, meetings, conferences

Wendell Stills, Project Development Specialist
Phone 202-366-2052, Fax 202-366-3409
Federal Highway Administration, Office of Environment and Planning
Environmental Operations Division, Project Development Team, HEP-30
Subject Areas: NEPA, interagency coordination, environmental policy

Robert Washington, Project Development Specialist
Phone 202-366-8988, Fax 202-366-3409
Federal Highway Administration, Office of Environment and Planning
Environmental Operations Division, Project Development Team, HEP-30
Subject Areas: NEPA, interagency coordination, environmental policy, Section 4(f)

Cynthia Williamson, Program Assistant
Phone 202-366-2051, Fax 202-366-3409
Federal Highway Administration, Office of Environment and Planning
Environmental Operations Division, Support Team, HEP-30
Subject Areas: computer support, scheduling, correspondence

STAFF DIRECTORY

GENERAL PLANNING — POLICY/GUIDANCE

400 7th Street, SW
Washington, DC 20590

Charlotte Adams, Associate Administrator

Phone 202-366-4043, Fax 202-493-2478

Federal Transit Administration

Office of Planning, TPL-1

Subject Areas: environment and planning policy

John Fegan, Team Leader

Phone 202-366-5007, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Bicycle & Pedestrian Programs Team, HEP-10

Subject Areas: Americans with Disabilities Act, bicycle program, National Bicycling & Walking Study, National Recreational Trails Program, pedestrian programs, trails

Susan E. Grosser, Community Planner

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning/Operations

Metropolitan and Environmental Planning Division, TPL-12

Subject Areas: public involvement, certification, intermodal planning group, HPMS

Kevin Heanue, Office Director

Phone 202-366-2951, Fax 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, HEP-10

Subject Areas: environment and planning policy

Eugene Johnson, Team Leader

Phone 202-366-2071, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Scenic Byways Team, HEP-10

Subject Areas: recreation, Scenic Byways Program, tourism, visual assessment, esthetics, design, art and architecture

George Schoener, Division Chief

Phone 202-366-4067, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, HEP-10

Subject Areas: border crossings, intermodal coordination, intermodal eligibility issues, STP Flexibility, STP intermodal issues, tourism

Dee Spann, Team Leader

Phone 202-366-4086, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Statewide Planning Team, HEP-10

Subject Areas: environmental regulation--planning related policy, FHWA Legislative Coordination (ISTEA), financial planning issues--statewide, innovative finance, Native American/tribal issues, public involvement--statewide, Statewide Transportation Planning Course, statewide transportation planning--policy, statewide transportation plans and TIPS, Title VI considerations--planning

Robert Stout, Director

Phone 202-366-1656, Fax 202-366-2478

Federal Transit Administration, Office of Planning

Office of Planning Operations, TPL-10

Subject Areas: intermodal and statewide planning, environment and metropolitan planning

STAFF DIRECTORY

GENERAL PLANNING — TECHNICAL

400 7th Street, SW
Washington, DC 20590

Lee Chimini, Intermodal Planner

Phone 202-366-4068, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Statewide Planning Team, HEP-10

Subject Areas: FHWA/FRA/MARAD coordination, high speed rail corridors, intermodal connections to NHS, intermodal databases, intermodal feasibility studies, intermodal model statewide planning grants, intermodal planning, landside access

Christopher Douwes, Community Planner

Phone 202-366-5013, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Bicycle & Pedestrian Programs Team, HEP-10

Subject Areas: Americans with Disabilities Act, Bicycle/Pedestrian Clearinghouse, bicycle program, National Recreational Trails Program, NEPA Coordination, Native American/tribal issues, Pan American Highway Study, recreation, statewide transportation plans, trails

Ron Fisher, Division Chief

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Innovation and Analysis

Innovation Division, TPL-21

Subject Areas: travel demand forecasting, TMIP, TRANSIMS, transit operating and maintenance costs, transit operations planning, ITS and planning

Dane Ismart, Team Leader

Phone 202-366-4071, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Intermodal Team, HEP-10

Subject Areas: FHWA/FRA/MARAD coordination, impact of transportation alternatives--statewide, innovative finance, intermodal demand forecasting, intermodal management systems, intermodal model statewide planning grants, intermodal planning, ISTEA management systems--integration, land use-travel relationships, statewide transportation planning course, travel forecasting--statewide, statewide transportation planning--technical procedures and applications

Barbara McMillen, Transportation Specialist

Phone 202-366-4634, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Bicycle & Pedestrian Programs Team, HEP-10

Subject Areas: Americans with Disabilities Act, Bicycle/Pedestrian Clearinghouse, bicycle program, pedestrian programs, trails

Stefan Natzke, Community Planner

Phone 202-366-9236, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Statewide Planning Team, HEP-10

Subject Areas: benefit cost analysis, freight planning, highway costs/economic analysis, Intermodal Connections Newsletter, intermodal management system, least-cost planning, statewide transportation planning course

STAFF DIRECTORY
STATEWIDE PLANNING — POLICY/GUIDANCE

400 7th Street, SW
Washington, DC 20590

Elizabeth Fischer, Landscape Architect

Phone 202-366-0349, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Scenic Byways Team, HEP-10

Subject Areas: recreation, Scenic Byways Program, tourism, visual assessment, historic preservation, native plants

Mary Ann McNamara, Transportation Specialist

Phone 202-366-1929, Fax 202-366-7660

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Scenic Byways Team, HEP-10

Subject Areas: Scenic Byways Program

STAFF DIRECTORY
STATEWIDE PLANNING — TECHNICAL

400 7th Street, SW
Washington, DC 20590

Mark Bradford, Community Planner

Phone 202-366-6810, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning Programs Division

Intermodal and Statewide Programs Division, Information Management & Analysis Team, HEP-10

Subject Areas: GIS analysis/applications, GIS--HPMS LRS systems

Frank Clark, Community Planner

Phone 202-366-5006, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, National Highway System Team, HEP-10

Subject Areas: federal-aid systems, federal-aid urban boundaries, interstate route numbering, interstate system actions

Perry Davison, Highway Engineer

Phone 202-366-4055, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Information Management & Analysis Team, HEP-10

Subject Areas: federal-aid urban boundaries, GIS systems, databases

Robert Gorman, Community Planner

Phone 202-366-5001, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, National Highway System Team, HEP-10

Subject Areas: areawide economic impacts of highway investments, 16' vertical clearance, federal-aid systems, functional classification, national highway system, Statewide Transportation Planning Course, STRAHNET

Jim Gruver, Team Leader

Phone 202-366-4045, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning Programs Division

Intermodal and Statewide Programs Division, Information Management & Analysis Team, HEP-10

Subject Areas: GIS analysis/applications, GIS coordination

Aung Gye, Community Planner

Phone 202-366-2167, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Information Management & Analysis Team, HEP-10

Subject Areas: GIS analysis/applications

William Marley, Community Planner

Phone 202-366-5009, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, National Highway System Team, HEP-10

Subject Areas: financial planning (computer applications), public/private financing (database), STRAHNET, national highway system (maps)

David 'Nick' Murane, Consultant

Phone 202-366-4053, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Information Management & Analysis Team, HEP-10

Subject Areas: LAN management, LAN technical support, hardware and software installation

Roger Petzold, Team Leader

Phone 202-366-4074, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Information Management & Analysis Team, HEP-10

Subject Areas: census--TIGER coordination, data collection--statewide transportation planning, data collection--new technologies, GIS analysis/applications, GIS coordination, GIS training, global positioning system, integrated information systems planning, intermodal databases, statewide transportation planning--technical procedures and applications

Russell Robertson, Highway Engineer

Phone 202-366-5048, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Information Management & Analysis Team, HEP-10

Subject Areas: data collection--statewide transportation planning, statewide transportation planning--technical procedures and applications, travel forecasting--statewide

Susan Rollman, Administrative Officer

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration

Office of Planning, TPL-1

Subject Areas: office administration, office accounts, personnel issues

Roslyn Webber, Highway Engineer

Phone 202-366-9946, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, Information Management & Analysis Team, HEP-10

Subject Areas: statewide transportation planning--technical procedures and applications

Tom Weeks, Team Leader

Phone 202-366-5002, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, National Highway System Team, HEP-10

Subject Areas: 16' vertical clearance, federal-aid systems, interstate route numbering, interstate system actions, national highway system, STRAHNET

Martin Weiss, Transportation Specialist

Phone 202-366-5010, Fax 202-493-2198

Federal Highway Administration, Office of Environment and Planning

Intermodal and Statewide Programs Division, National Highway System Team, HEP-10

Subject Areas: benefit/cost analysis, highway feasibility studies, regional planning (special studies), national highway system (high priority corridors)

STAFF DIRECTORY

METROPOLITAN PLANNING — POLICY/GUIDANCE

400 7th Street, SW
Washington, DC 20590

Paul R. Branch, Operations Research Analyst

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Intermodal and Statewide Planning Division, TPL-11

Subject Areas: Section 5303/5313 grants, ITS/congestion management, Indian tribal issues, audit issues, PEAs, financial planning issues

Sheldon Edner, Team Leader

Phone 202-366-4066, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, Program Services Team, HEP-20

Subject Areas: MIS, metropolitan planning, MPOs, MPO-state relation, planning certification

Michael Hopson,

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Metropolitan and Environmental Planning Division, TPL-12

Subject Areas: public involvement, APA's Growing Smart Project, metropolitan TIPs--programming

Barna Juhasz, Division Chief

Phone 202-366-4044, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, HEP-20

Subject Areas: metropolitan planning

Tony Solury, Community Planner

Phone 202-366-5003, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, Program Services Team, HEP-20

Subject Areas: administration of FHWA planning funds (PL&SPR); planning funds eligibility; consolidated FHWA/FTA planning grant; ISTEA management systems; suballocated STP funds

Effie S. Stallsmith, Transportation Management Specialist

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Planning Innovation Division, Office of Innovation and Analysis, TPL-21

Subject Areas: livable communities initiative, special planning studies

Paul L. Verchinski, Division Chief

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Intermodal and Statewide Planning Division, Office of Planning Operations, TPL-11

Subject Areas: metropolitan planning program, state planning and research program, US DOT

Intermodal Terminals Committee, FTA Internet Committee, statewide planning regulations,

management systems regulations, FTA Telecommuting Working Group , Office of Planning Budget,

national planning and research program

Sam Zimmerman, Special Assistant

Phone 202-366-9227, Fax 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, HEP-20

Subject Areas: travel demand forecasting, evaluation, transit/HOV planning

STAFF DIRECTORY

METROPOLITAN PLANNING — TECHNICAL

400 7th Street, SW
Washington, DC 20590

Deborah R. Burns, Community Planner

Phone 202-366-2360, Fax 202-249-2478

Federal Transit Administration, Office of Planning

Metropolitan and Environmental Planning Division, TPL - 12

Subject Areas: metropolitan planning program, planning certification reviews

Mike Culp, Highway Engineer

Phone 202-366-9229, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, System Planning Team, HEP-20

Subject Areas: travel demand forecasting, GIS

Patrick DeCorla-Souza, Team Leader

Phone 202-366-4076, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, System Planning Team, HEP-20

Subject Areas: air quality, cost-benefit analysis, congestion pricing, cross-modal evaluation, least cost planning, project traffic forecasting, land-use travel relationships, travel demand forecasting

Fred Ducca, Team Leader

Phone 202-366-5843, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, Travel Modeling Team, HEP-20

Subject Areas: TMIP, TRANSIMS, land-use forecasting models

Jerry Everett, Community Planner

Phone 202-366-4079, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, System Planning Team, HEP-20

Subject Areas: mobile source emissions, transportation planning data

Kim Fisher, Consultant

Phone 202-366-4054, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, Travel Modeling Team, HEP-20

Subject Areas: TMIP, TRANSIMS, travel demand forecasting

Monica Francois, Community Planner

Phone 202-366-6072, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, Travel Modeling Team, HEP-20

Subject Areas: congestion management, research programs, TMIP, travel models, census, intergovernmental relationships, MPOs

Brian Gardner, Community Planner

Phone 202-366-4061, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, Congestion Management Team, HEP-20

Subject Areas: travel demand modeling, traffic simulation, congestion management systems

Charlie Goodman, Team Leader

Phone 202-366-8070, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, Congestion Management Team, HEP-20

Subject Areas: congestion management planning and research, travel demand forecasting, ITS and planning, performance-based planning, congestion management workshops and training, technical assistance

Douglas Laird, Community Planner

Phone 202-366-5972, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, Congestion Management Team, HEP-20

Subject Areas: congestion management, travel demand forecasting, global positioning system applications

Sean G. Libberton, Transportation Planner

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning

Intermodal and Statewide Planning Division, Office of Planning Operations, TPL-11

Subject Areas: flexible funding opportunities brochure, PTMS Guidance, management systems final rule

Candace Noonan, Transportation Program Specialist

Phone 202-366-2360, Fax 202-493-2478

Federal Transit Administration, Office of Planning Operations

Intermodal and Statewide Planning Division, TPL-11

Subject Areas: Section 5303 and 5313(b) guidance circulars, training and NTI coordinator, training catalog, EPR reports

G. Carlos Rodriguez, Team Leader

Phone 202-366-5015, Fax 202-366-7600 or 202-366-3713

Federal Highway Administration, Office of Environment and Planning

Metropolitan Planning Division, Administrative Support Team, HEP-20

Subject Areas: 18-month master training program, census MSA and UZA funding, administrative support

David Vozzolo, Community Planner
Phone 202-366-2360, Fax 202-493-2478
Federal Transit Administration, Office of Planning
Office of Planning Innovation and Analysis, Analysis Division, TPL-22
Subject Areas: major investment studies, new starts planning

Doris J. Watson, Planning Research Program Coordinator, COR
Phone 202-366-4081, Fax 202-366-7600 or 202-366-3713
Federal Highway Administration, Office of Environment and Planning
Metropolitan Planning Division, Administrative Support Team, HEP-20
Subject Areas: contracts, program administration

STAFF DIRECTORY INDEX

Adams, Charlotte, General Planning — Policy/Guidance
Armstrong, Bob, Other Environmental, Social and Resource Impacts — Noise
Babij, Eleanor, Air Quality — Policy/Guidance
Bank, Fred, Other Environmental, Social and Resource Impacts — Natural Resources
Bauckman, Sharon, Other Environmental, Social and Resource Impacts — Social and Economic
Black, Kevin, Air Quality — Technical
Borinsky, Susan, Other Environmental, Social and Resource Impacts — Social and Economic
Bowles, Noreen, Air Quality — Policy/Guidance
Bradford, Mark, Statewide Planning — Technical
Branch, Paul R., Metropolitan Planning — Policy/Guidance
Burns, Deborah R., Metropolitan Planning — Technical
Byun, Dr. Joon, Air Quality — Technical
Cazenias, Patricia, Other Environmental, Social and Resource Impacts — Natural Resources
Chimini, Lee, General Planning — Technical
Clark, Frank, Statewide Planning — Technical
Cleckley, Eugene W., Other Environmental, Social and Resource Impacts — Policy/Guidance
Coates, Adrica, Air Quality — Policy/Guidance
Cohen, Sheila A., Other Environmental, Social and Resource Impacts — Social and Economic
Culp, Mike, Metropolitan Planning — Technical
Davison, Perry, Statewide Planning — Technical
DeCorla-Souza, Patrick, Metropolitan Planning — Technical
Dong, Leland W., Other Environmental, Social and Resource Impacts — Policy/Guidance
Douwes, Christopher, General Planning — Technical
Ducca, Fred, Metropolitan Planning — Technical
Eberle, Bruce, Other Environmental, Social and Resource Impacts — Natural Resources
Edner, Sheldon, Metropolitan Planning — Policy/Guidance
Emerson, Donald J., Other Environmental, Social and Resource Impacts — Social and Economic
Everett, Jerry, Metropolitan Planning — Technical
Fauver, Kirk D., Air Quality — Policy/Guidance
Fegan, John, General Planning — Policy/Guidance
Finch, Ginny, Air Quality — Policy/Guidance
Fischer, Elizabeth, Statewide Planning — Policy/Guidance
Fisher, Kim, Metropolitan Planning — Technical
Fisher, Ron, General Planning — Technical
Francois, Monica, Metropolitan Planning — Technical
Gardner, Brian, Metropolitan Planning — Technical
Garliauskas, Lucy, Air Quality — Policy/Guidance
Garrett, Paul, Other Environmental, Social and Resource Impacts — Natural Resources
Goodman, Charlie, Metropolitan Planning — Technical
Gorman, Robert, Statewide Planning — Technical
Grosser, Susan E., General Planning — Policy/Guidance
Gruver, Jim, Statewide Planning — Technical

Gye, Aung, Statewide Planning — Technical
Harper-Lore, Bonnie, Other Environmental, Social and Resource Impacts — Natural Resources
Heanue, Kevin, General Planning — Policy/Guidance
Ho, Cecilia, Air Quality — Policy/Guidance
Hopson, Michael, Metropolitan Planning — Policy/Guidance
Ismart, Dane, General Planning — Technical
Johnson, Eugene, General Planning — Policy/Guidance
Johnson-Ball, Phillis, Air Quality — Policy/Guidance
Juhasz, Barna, Metropolitan Planning — Policy/Guidance
Koontz, Mike, Air Quality — Policy/Guidance
Kragh, Brenda C., Other Environmental, Social and Resource Impacts — Social and Economic
Laird, Douglas, Metropolitan Planning — Technical
Larson, Kreig, Other Environmental, Social and Resource Impacts — Policy/Guidance
Libberton, Sean G., Metropolitan Planning — Technical
Marley, William, Statewide Planning — Technical
Martinez, Victoria B., Air Quality — Policy/Guidance
McMillen, Barbara, General Planning — Technical
McNamara, Mary Ann, Statewide Planning — Policy/Guidance
Mills, Florence, Other Environmental, Social and Resource Impacts — Social and Economic
Murane, David ‘Nick’, Statewide Planning — Technical
Natzke, Stefan, General Planning — Technical
Newman, Christopher, Other Environmental, Social and Resource Impacts — Policy/Guidance
Noonan, Candace, Metropolitan Planning — Technical
Ossi, A. Joseph, Other Environmental, Social and Resource Impacts — Social and Economic
Peaks, Harold, Other Environmental, Social and Resource Impacts — Social and Economic
Petzold, Roger, Statewide Planning — Technical
Pugh, Sharon, Other Environmental, Social and Resource Impacts — Social and Economic
Robertson, Russell, Statewide Planning — Technical
Rodriguez, G. Carlos, Metropolitan Planning — Technical
Rollman, Susan, Statewide Planning — Technical
Ronning, Steve, Other Environmental, Social and Resource Impacts — Noise
Savonis, Mike, Air Quality — Policy/Guidance
Schnell, Kathleen A., Other Environmental, Social and Resource Impacts — Policy/Guidance
Schoeneberg, Dick, Air Quality — Technical
Schoener, George, General Planning — Policy/Guidance
Sharp, Alicia, Air Quality — Policy/Guidance
Shrouds, Jim, Air Quality — Policy/Guidance
Skaer, Fred, Other Environmental, Social and Resource Impacts — Policy/Guidance
Smith, Benita, Other Environmental, Social and Resource Impacts — Policy/Guidance
Solury, Tony, Metropolitan Planning — Policy/Guidance
Spann, Dee, General Planning — Policy/Guidance
Stallsmith, Effie S., Metropolitan Planning — Policy/Guidance
Stills, Wendell, Other Environmental, Social and Resource Impacts — Policy/Guidance
Stout, Robert, General Planning — Policy/Guidance
Strine, Nancy S., Other Environmental, Social and Resource Impacts — Social and Economic
Verchinski, Paul L., Metropolitan Planning — Policy/Guidance
Vozzolo, David, Metropolitan Planning — Technical

Washington, Robert, Other Environmental, Social and Resource Impacts — Policy/Guidance
Watson, Doris J., Metropolitan Planning — Technical
Webber, Roslyn, Statewide Planning — Technical
Weeks, Tom, Statewide Planning — Technical
Weiss, Martin, Statewide Planning — Technical
Wheeler, Robert H., Other Environmental, Social and Resource Impacts — Social and Economic
Williamson, Cynthia, Other Environmental, Social and Resource Impacts — Policy/Guidance
Zimmerman, Sam, Metropolitan Planning — Policy/Guidance

**PERSONNEL DIRECTORY
PLANNING, ENVIRONMENT,
RESEARCH & DEVELOPMENT**

**FEDERAL HIGHWAY ADMINISTRATION
REGIONAL DIRECTORY**

REGION 1

Federal Highway Administration
Leo W. O'Brien Federal Building, Room 719, Clinton & North Pearl Streets
Albany, New York 12207, 518-431-4224

Stephen A. Moreno	Director, Planning and Program Development	ext. 256
Achille Alonzi	Urban Trans. Planning Program Manager	ext. 228
Frederick P. Orloski	Transportation Planning Program Manager	ext. 267
John E. Dewar	Science & Technology Program Manager	ext. 260
Jeffrey Firmin	Regional Environmental Engineer	ext. 271
Michael J. Otto	Regional Environmental Engineer	ext. 265
Alicia E. N. Nolan	Air Quality Specialist	ext. 236
Jonathan D. McDade	Urban Mobility Specialist	ext. 254

REGION 3

Federal Highway Administration
10 S. Howard Street, Suite 4000, Baltimore, Maryland 21201

David C. Lawton	Director, Planning and Program Devel.	410-962-3742
Brian K. Betlyon	Management Systems, GIS Planner Engineer	410-962-3743
Stephen K. Rapley	Urban Transportation Planning	410-962-3647
David C. Gamble	Environmental Program Manager	410-962-2542
Lamar S. Smith	Environmental Specialist	410-962-4345
N. Jareene Barkdoll	Environmental Specialist	410-962-4876
Mario E. Jorquera	Air Quality Specialist	410-962-3744
Louis N. Triandafilou	Director, Office of Structures	410-962-2460
Mark E. Swanlund	Pavement Technology Engineer	410-962-4034
Stephen S. Clinger	Urban Mobility Specialist	410-962-3815

REGION 4

Federal Highway Administration
Suite 200, 1720 Peachtree Road, NW, Atlanta, Georgia 30367

John S. Humeston	Director, Planning and Program Development	404-347-4499
Laura S. Schroeder	Intermodal/Urban Planner	404-347-4499
Bernard E. Williams	Statewide Planning Engineer	404-347-4499
Andrew M. Edwards	Air Quality Specialist	404-347-4499
Jennifer L. Kittle	Research/Environmental Engineer	404-347-4499

Timothy A. Haugh	Environmental Specialist	404-347-4499
Susan S. Bruce	Congestion Management/TVHS	404-347-4075

REGION 5

Federal Highway Administration
19900 Governors Highway, Suite 301, Olympia Fields, Illinois 60461

Philip E. Miller	Director, Planning and Program Development	708-283-3538
Samuel Herrera-Diaz	Metropolitan Planning & Air Quality Specialist	708-283-3536
Roger D. Stokes	Transportation Planning Engineer	708-283-3533
Vernon J. Mickelsen	Transportation Planning Specialist (Statewide)	708-283-3535
William M. Brownell	Urban Transportation Specialist	708-283-3549
Edward S. Stillings	Transportation Management Engineer	708-283-3550
Mary M. Stringfellow	Research & Technology Transfer Engineer	708-283-3555
Paul H. Tufts	Environmental Program Manager	708-283-3540
Peter E. Kiernan	Environmental Specialist	708-283-3534

REGION 6

Federal Highway Administration
819 Taylor Street, Room 8A00, Fort Worth, Texas 76102

Peter A. Lombard	Director, Planning and Program Development	817-334-3646
Martin F. Kelly	Urban Transportation Planner	817-334-2994
Jose M. Campos	Transportation Planning Specialist	817-334-4376
John E. Sweek	Research & Technology Transfer Engineer	817-334-4377
Greg M. Jones	Urban Transportation Engineer	817-334-4379
George B. Hadley	Air Quality Specialist	817-334-3235
Robert T. Rodriguez	Environmental/Program Engineer	817-334-3150

REGION 7

Federal Highway Administration
6301 Rockhill Road, P.O. Box 419715, Kansas City, Missouri 64141

Ronald J. Rogers	Director, Program Development	816-276-2750
John M. Cater	Urban Trans. Planning Program Manager	816-276-2750
Bryon E. Low	Statewide Planning Program Manager	816-276-2750
Daniel J. Wheeler	Air Quality Specialist	816-276-2750
Kenneth W. Bechtel	Environmental Specialist	816-276-2750
Roger C. Port	Technology Transfer/Research Engineer	816-276-2744
Bruce D. Baldwin	Technology Transfer/TVHS Engineer	816-276-2741
(Vacant)	Technology Transfer Assistant	816-276-2740

REGION 8

Federal Highway Administration
555 Zang Street, Room 400, Lakewood, Colorado 80228
303-969-6712

James H. Lamb Jr.	Director, Program Development	ext. 324
Robin K. Smith	Air Quality - Urban Transportation Planner	ext. 327
Lorrie A. Lau	Statewide Transportation Planner	ext. 335
William C Evans	Research & Technology Transfer Engineer	ext. 330
Jeffrey W. Kolb	Urban Transportation Specialist	ext. 326
Edrie L. Vinson	Environmental Planner	ext. 329

REGION 9

Federal Highway Administration
201 Mission Street, Suite 2100, San Francisco, California 94105

Jeffrey R. Brooks	Deputy Regional Admin./Dir. of Operations	415-744-3110
Jay E. Bates	Statewide Transportation Planner	415-744-2616
Erv Poka Jr.	Urban Transportation Planner	415-744-2615
Mark R. Kehrli	Congestion Management Specialist	415-744-2659
Jaclyn K. Landsman	Traffic Management Specialist	415-744-3103
Robert O'Loughlin	Air Quality Specialist	415-744-3823
Dan R. Harris	Environmental Specialist	415-744-2611
Merrill F. Deskins	Environmental Specialist	415-744-2614
Katiann Wong-Murillo	Environmental Specialist	415-744-2612
Susan E. Klekar	Research & Technology Transfer Engineer	415-744-2628

REGION 10

Federal Highway Administration
KOIN Center, Suite 600, 222 S.W. Columbia Street, Portland, Oregon 97201

Carl S. Armbrister	Director, Planning and Program Development	503-326-2061
Lisa B. Hanf	Air Quality Specialist - Metropolitan Planning	503-326-2061
Jonathan N. Young	Statewide Transportation Planner	503-326-2061
Robert T. Rath	Research & Tech. Transfer Program Manager	503-326-2061
Robert Falkenstein	Environmental Program Manager	503-326-2061
Edward L. Fischer	Urban Systems Engineer	503-326-2071

FHWA DIRECT FEDERAL ENVIRONMENTAL PROGRAM CONTACTS

Eastern Office	Kenneth Atkins	Environmental Planning Engineer	703-285-0085 x48
Central Office	Bill Bird	Environmental Planning Engineer	303-969-5909
Western Office	Allan Stockman	Environmental Planning Engineer	360-696-7752

FHWA DIVISION OFFICE STAFF

ALABAMA

500 Eastern Boulevard, Suite 200, Montgomery, 36117-2018

HEP-AL	Faye Q. DiMassimo	Planning/Environmental Coordinator	334-223-7377
	J. Terry Wofford	Environmental Engineer	334-223-7373
	Gordon E. Brown	Transportation Planning Engineer	334-223-7373

ALASKA

Federal Building, 9th and Glacier Ave., P.O. Box 21648, Juneau 99802-1648

HPR-AK	John K. Lohrey	Transportation Planner	907-586-7422
HRW-AK	James A Bryson	Realty Officer/Environ. Coord.	907-586-7430
HBR-AK	Drew F. Sielbach	Bridge Engineer	907-586-7544

ARIZONA

234 N. Central Avenue, Suite 330, Phoenix 85004

HPR-AZ	Dennis G. Mittelstedt	Planning & Research Engineer	602-379-3646
	Dave S. Nelson	Assistant Division Administrator	602-379-3646
	Steve D. Thomas	Environmental Coordinator	602-379-3646
	Alan R. Hansen	ITS Coord./Assistant P & R Engineer	602-379-3646

ARKANSAS

Federal Office Building, Room 3128, 700 West Capitol Avenue, Little Rock 72201

HPR-AR	Gary A. DalPorto	Planning & Research Engineer	501-324-6441
	Wendall L. Meyer	Environmental & Design Specialist	501-324-6430

CALIFORNIA

980 9th Street, Suite 400, Sacramento 95814-2724

HPR-CA	Dennis A. Scovill	Chief, Plan., Research & Environ.	916-498-5863
	Wade E. Hobbs	Urban Transportation Planner	916-498-5027
	(Vacant)	Research Engineer	916-498-5863
	James L. Lee	Planning Engineer	916-498-5048

Spencer L. Stevens	Transportation Planning Engineer	916-498-5862
Joan C. Bollman	Environmental Specialist	916-498-5028
Karen A. Schmidt	Environmental Specialist	916-498-5046

COLORADO

555 Zang Street, Room 250, Lakewood 80228
303-969-6730

HTP-CO	Daniel D. Donovan	Transportation Planner	ext. 378
HTP-CO	DuWayne Ebertowski	Planning & Air Qual. Specialist	ext. 376
HST-CO	Joseph P. Duran	Special/Tech. Application Engineer	ext. 385
HPC-CO	Ronald A. Sperl	Environmental Coordinator/ROW	ext. 368

CONNECTICUT

628-2 Hebron Avenue, Suite 303, Glastonbury 06033
860-659-6703

HPR-CT	Amy D. Jackson-Grove	Planning, Research & Environ.	ext. 3010
	Ms. Trang T. Hoang	Assistant Transportation Planner	ext. 3029
	Carol G. Adkins	Environmental Specialist	ext. 3011
	(Vacant)	Assistant Transportation Planner	ext. 30--

DELAWARE

300 South New Street, Room 2101, Dover 19904-6726

HPR-DE	Paul J. Lang	P & R Engineer/T ² Engineer	302-734-2835
	Bob F. Kleinburd	ROW/Environmental Officer	302-734-2966

DISTRICT OF COLUMBIA

Union Center Plaza, 820 First Street, NE, Suite 750, Washington 20002

HPR-DC	Sandra P. Jackson	Transportation Planner	202-523-0163
	Karen A. Bobo	Program Coordinator	202-523-0174

FLORIDA

227 North Bronough Street, Room 2015, Tallahassee 32301

HPR-FL	Larry D. Anderson II	Planning & Intermodal Coordinator	904-942-9605
	Robert L. Griffith	Metropolitan Transportation Planner	904-942-9604
	Gary M. Phillips	Urban Planning Engineer	904-942-9677
	(Vacant)	Statewide Transportation Planner	904-942-9601
	Robert L. Florence	HPMS/Research Engineer	904-942-9591
	Maiser A. Khaled	Environmental Coordinator	904-942-9601

GEORGIA

1720 Peachtree Road, NW, Suite 300, Atlanta 30367

HIP-GA	Robert D. Radics	Intermodal Planning Engineer	404-347-4757
	Jean G. Mazur	Transportation Planning Engineer	404-347-4755
	Jason E. Cosby	Transportation Planner	404-347-4755
HSE-GA	Clorese Wagner	Technology Development Engineer	404-347-4750
HPD-GA	Clyde B. Johnson	Project Development Manager	404-347-4754

HAWAII

300 Ala Moana Boulevard, Suite 3202, Box 50206, Honolulu 96850

HRW-HI	Barbara J. Braswell	ROW Officer/Transp. Planning	808-541-2700
HBR-HI	Raymond McCormick	Bridge Engineer	808-541-2700
	(Vacant)	Assistant Division Administrator	860-659-6703 x3010
	Glenn M. Yasui	Area Engineer	860-659-6703 x3029

IDAHO

3050 Lakeharbor Lane, Suite 126, Boise 83703

HPR-ID	R. Scott Frey	Transportation Engineer	208-334-1843
	Mary E. Gray	Environ. Coordinator/Realty Officer	208-334-1843

ILLINOIS

3250 Executive Park Drive, Springfield 62703

HPP-IL	H. Richards McLane	Planning & Program Develop.	217-492-4638
	Dennis W. Johnson	Environmental Specialist	217-492-4625
	Peter L. Olson	Urban Mobility Engineer	217-492-4634
	Janis P. Piland	Planning & Programs Engineer	217-492-4989
	Jon-Paul Kohler	Urban Transportation Engineer	217-492-4988
HET-IL	A. Pal Choudry	Research & Tech. Transfer Engineer	217-492-4637

INDIANA

Federal Office Building, Room 254, 575 North Penn. Street, Indianapolis 46204

HPR-IN	Lawrence D. Tucker	Planning & Prog. Devel. Manager	317-226-7492
	Lisa C. Gion	Planning and Mobility Engineer	317-226-5353
	Larry M. Heil	Environmental Engineer	317-226-7491
	Donald G. Johnson	Research & Technology Engineer	317-226-7480

IOWA105 6th Street, P.O. Box 627, Ames 50010

HPR-IA	Larry D. Forney	Planning & Research Engineer	515-233-7322
	Jack M. Latterell	Safety/Environmental Engineer	515-233-7323
	Rebecca J. Hiatt	Technology Transfer Engineer	515-233-7321

KANSAS3300 South Topeka Blvd., Suite 1, Topeka 66611-2237

HPR-KS	William R. Klassen	Planning & Research Engineer	913-267-7284
	Stephen H. Foust	Assistant P&R Engineer	913-267-7284
	Pat M. Arno	ROW/Environmental Officer	913-267-7285
	Jeffery L. Smith	Technology Transfer Engineer	913-267-7284

KENTUCKYJohn C. Watts Building, 330 West Broadway Street, P.O. Box 536, Frankfort 40602

HPR-KY	Glenn Jilek	Planning & Technology Engineer	502-223-6727
	Brent A. Sweger	Transportation Engineer	502-223-6743
	Alan H. Ritchie	Environmental Coordinator	502-223-6753
	Katherine W. Hainer	Mobility Engineer	502-223-6729

LOUISIANA750 Florida Street, Room 239, P.O. Box 3929, Baton Rouge 70821

HPR-LA	Virgil W. Page	Planning & Research Engineer	504-389-0400
	Arturo Aguirre, Jr.	Assistant P & R Engineer	504-389-0585
	Robert V. Mahoney	Environmental Coordinator	504-389-0568

MAINEFederal Building, Room 614, 40 Western Avenue, Augusta 04330

HPR-ME	Steven P. Beningo	Transportation Planner	207-622-8487
	Jim F. Linker	Division Reality Officer	207-622-8355

MARYLANDThe Rotunda, Suite 220, 711 West 40th Street, Baltimore 21211-2187
410-962-4342

HPR-MD	B. Renee Sigel	Planning, Research & Environment Team Leader	ext. 116
	Michele Waxman Johnson	Transportation Planner/Air Quality Specialist	ext. 114
	Mary F. Huie	Environmental Engineer	ext. 148
	Pamela S. Stephenson	Environmental Specialist	ext. 145

MASSACHUSETTS

Transportation Systems Center, 55 Broadway, 10th Floor, Cambridge 02142

HPR-MA	Edward L. Silva	Planning & Research Engineer	617-494-2253
	(Vacant)	Assistant Planning & Research Engineer	617-494-3359
HBR-MA	(Vacant)	Bridge Engineer (Technology Transfer)	617-494-2014

MICHIGAN

315 West Allegan Street, Room 207, Lansing 48933

HPP-MI	Donald J. Cameron	Planning & Program Development Program Manager	517-377-1837
	Jim R. Cramer	Air Quality/Transportation Program Specialist	517-377-1837
	Jim A. Kirschensteiner	Environmental Engineer	517-377-1880
	Charlie J. O'Neill	Right-Of-Way Officer/Transportation Program Manager	517-377-1837
	Cindy Durrenberger	Transportation Planner	517-377-1837
	Michael Sarigiani	Transportation Planner	517-377-1837

MINNESOTA

Metro Square Building, Suite 490, 7th and Roberts Streets, St. Paul 55101

HPR-MN	Susan L. Moe	Planning & Research Engineer	612-290-3246
	Gerald L. Liibbe	Assistant Planning & Research Engineer	612-290-3244
	Thomas M. Peters	Planning & Technology Engineer	612-290-3252
	Cheryl B. Martin	Construction & Maintenance Engineer [Environmental Program Contact]	612-290-3240

MISSISSIPPI

666 North Street, Suite 105, Jackson 39202

HPR-MS	Clyde F. Hare	Planning & Management Systems Engineer	601-965-4232
	Cecil W. Vick	Realty Specialist/Environmental Coordinator	601-965-4217
HTS-MS	Norberto Munoz	Technology Coordinator	601-965-4233

MISSOURI

209 Adams Street, P.O. Box 1787, Jefferson City 65102

HPR-MO	David C. Edwards	Division P & R Engineer	314-636-7104
	Jerry Dean Stevenson	Transportation Planning Engineer	314-636-7104
	Don L. Neumann	Programs Engineer [Environmental Program Contact]	314-636-7104
	Peggy J. Casey	Environmental Engineer	314-636-7104
	J. Steve Saxton	Research & Technology Transfer	314-636-7104

MONTANA

301 South Park Street, Room 448, Helena 59626-0056
406-441-1230

HPM-MT	David C. Miller	Assistant Program Coordinator for Program Development	ext. 240
	Dale W. Paulson	Environmental Coordinator	ext. 239

NEBRASKA

100 Centennial Mall North, Room 220, Lincoln 68508

HPL-NE	Stephen J. Burnham	Planning Engineer (Air Quality)	402-437-5964
	Phil E. Barnes	Operations Engineer (General Environment, Wetlands, & Noise)	402-437-5971
	Ed W. Kosola	ROW Officer (Hazardous Materials & Historic Preservation)	402-437-5973
HRT-NE	Frank J. Doland	Research & Technology Transfer Engineer	402-437-5963

NEVADA

705 North Plaza Street, Suite 220, Carson City 89701

HPR-NV	Randy J. Bellard	Planning & Research Engineer	702-687-5332
	Jim E. Rud	Operations Engineer [Environmental Program Contact]	702-687-5320
	Gregory J. Novak	Traffic & Safety Engineer/Assistant P & R Engineer	702-687-1203

NEW HAMPSHIRE

279 Pleasant Street, Room 204, Concord 03301

HPR-NH	Richard R. Lemieux	Transportation Planner	603-225-1643
	Bill F. O'Donnell	Environmental/Design Engineer	603-225-1608
HBR-NH	David R. Hall	Bridge Engineer (Research & Technology Transfer)	603-225-1631

NEW JERSEY

840 Bear Tavern Road, Suite 310, West Trenton 08628-1019

HPR-NJ	Lloyd J. Jacobs	Transportation Planner	609-637-4211
	Frank C. Bartholomew	Assistant Transportation Planner	609-637-4214
	Charles E. Basner	Assistant Division Administrator [Environmental Program Contact]	609-637-4209
	Timothy J. Chandler	Environmental Specialist	609-637-4213

NEW MEXICO604 W. San Mateo Road, Santa Fe 87501

HPM-NM	Joseph M. Maestas	Planning & Program Management Engineer	505-820-2026
	Elizabeth T. Romero	Environmental Coordinator	505-820-2027

NEW YORKLeo W. O'Brien Federal Building, Clinton & North Pearl Streets, 9th Floor, Albany 12207

HPD-NY	Thomas E. Waters	Chief, Planning and Program Development	518-431-4124
	Joseph E. Rich, Jr.	Air Quality/Urban Transportation Planner	518-431-4124
	William A. Gates	Environmental Specialist	518-431-4122
	Eloise Freeman	Transportation Planner	518-431-4124
	David W. Nardone	Statewide Transportation Planner	518-431-4124
HTD-NY	Thomas K. Sorel	Technology Development Engineer	518-431-4129
	Richard J. Dunn	Research & Technology Transfer Engineer	518-431-4129

NORTH CAROLINA310 New Bern Avenue, Suite 410, Raleigh 27601

HPP-NC	Catherine A. Batey	Planning & Program Development Engineer	919-856-4330
	Joseph G. Stevens	Planning Engineer	919-856-4330
	Wendy E. Gasteiger	Environmental Coordinator	919-856-4330
HRT-NC	Joseph Max Tate	Research & Technology Engineer	919-856-4354
	Vincent P. Barone	Traffic Operations & Safety Engineer	919-856-4354

NORTH DAKOTA1471 Interstate Loop, Bismarck 58501-0567

HPM-ND	George L. Struchynski	Planning/Pavement Engineer	701-250-4349
	Steven M. Busek	Safety/Traffic Engineer	701-250-4348
	Calvin L. Larson	Environmental Coordinator	701-250-4341

OHIO200 North High Street, Room 328, Columbus 43215

HPM-OH	Herman D. Rodrigo	Planning & Program Development Manager	614-469-5877
	Stewart T. Sonnenberg	Planning & Urban Mobility Team Leader	614-469-5877
	Steven A. Call	Planning & Urban Mobility Engineer	614-469-5877
	James E. Buckson	Traffic Operations/TVHS Engineer	614-469-2408

Lyle H. Hyde Jr.	Environ. & Air Quality Team Leader	614-469-5877
Tashia J. Clemons	Environmental Specialist	614-469-5877
Jack H. Springer	Research & T ² Engineer	614-469-2408

OKLAHOMA

715 South Metropolitan, Suite 700, Oklahoma City 73108

HPR-OK	Mike Herron	Plng. & Tech. Services Team Leader	405-945-6040
	Sam L. Woods	Plng. & Tech. Transfer Coordinator	405-945-6166
	Jack L. Mielke	Environmental Coordinator	405-945-6169

OREGON

Equitable Center, Suite 100, 530 Center Street, NE, Salem 97301

HPR-OR	Fred P. Patron	Division Transportation Planner	503-399-5749
HPR.1-OR	Nicholas J. Fortey	Transportation Planning & Research Engineer	503-399-5749
HAD.3-OR	Victoria A. Kinne	ITS, Safety, and Traffic	503-399-5749
HAD.4-OR	Elton H. Chang	Operations Engineer-Environmental	503-399-5749
HAD.1-OR	Roger Harding	Civil Rights Program Manager & Technology Applications Engineer	503-399-5749

PENNSYLVANIA

228 Walnut Street, Room 558, Harrisburg 17101-1720

HPR-PA	Robert A. Hall	Supervisory Community Planner	717-782-3759
	Eugene P. Olinger	Planning, Research, and Technology Transfer Engineer	717-782-3801
	Joseph A. Werning	Transportation Planner	717-782-3835
	Daniel W. Johnson	Environmental Program Manager	717-782-2276
	Debbie Suci Smith	Environmental Specialist	717-782-3785
	Daniel J. Hayes	Environmental Specialist	717-782-3842

PUERTO RICO

U.S. Courthouse and Federal Building, Carlos Chardon Street, Hato Rey 00918

HPR-PR	Eddie Rivera	Planning Engineer	809-766-5600
	Emigdio R. Isern	Division Realty Officer [Environmental Program Contact]	809-766-5600

RHODE ISLAND

380 Westminster Mall, Room 547, Providence 02903

HPR-RJ	Ralph J. Rizzo	Transportation Planner	401-528-4548
	Marc G. Savard	Bridge Engineer (Research & Technology Transfer)	401-528-4577
	K. Rob Sikora	Area Engineer [Environmental Program	401-528-4551

SOUTH CAROLINA1835 Assembly Street, Suite 758, Columbia 29201

HPE-SC	Kenneth R. Myers	Planning & Environmental Engineer	803-253-3881
	Darrin G. Grenfell	Assistant Planning & Environmental Engineer	803-765-5464
HA-SC	Patrick A. Kennedy	Assistant Planning & Traffic Engineer	803-253-3890
	David B. Law	Technology Systems Engineer (Research)	803-253-3886

SOUTH DAKOTAFederal Office Building, 116 East Dakota Avenue, P.O. Box 700, Pierre 57501
605-224-8033

HPM-SD.3	Kenneth E. Eschmeyer	Transportation Planner (Research & T ² Responsibility)	ext. 3039
HOP-SD	Virginia R. Massie	Transportation Engineer (Environment Responsibilities)	ext. 3037

TENNESSEE249 Cumberland Bend Drive, Nashville 37228

HPR-TN	Laura L. Cove	Planning, Environment, & Research Engineer	615-736-7106
	Richard T. Duemler	Planning & Research Engineer	615-736-7107
	Leigh Ann Tribble	IVHS/Congestion Management Engineer (Planning Responsibilities)	615-736-7107
	(Vacant)	Environmental Coordinator	615-736-2764

TEXASFederal Office Building, Room 826, 300 East Eighth Street, Austin 78701

HPP-TX	Dennis W. Jones	Director, Planning and Program Development	512-916-5917
	Michael T. Leary	Intermodal Team Leader	512-916-5917
	Theodore L. Miller	Statewide Planner	512-916-5917
	Barbara C. Maley	Urban Planner	512-916-5917
	Kathy D. Dimpsey	Environmental Coordinator	512-916-5919
HTA-TX	William R. Gary White	Director, Technology Assist. (Res. & T ² Engr.)	512-916-5966

UTAH

2520 W. 4700 South, Suite 9A, Salt Lake City 84118

HPP-UT	Harlan W. Miller	Planning Engineer	801-963-0182
HPM-UT(2)	Richelle M. Suzuki	Transportation Technology Engineer	801-963-0182
HBR-UT	William R. Gedris	Environment Engineer	801-963-0182

VERMONT

Federal Building, 87 State Street, P.O. Box 568, Montpelier 05601

HPR-VT	Christopher P. Jolly	Planning & Programming Engineer (Research & T ²)	802-828-4433
	Kathleen H. Quinn	Environment/ROW Program Manager	802-828-4433

VIRGINIA

Dale Building, Suite 205, 1504 Santa Rosa Road, Richmond 23229

HPR-VA	J. Bruce Turner	Planning & Environment Manager	804-281-5111
	Edgardo Cordero	Assistant Transportation Planner	804-281-5136
	Allen Masuda	Assistant Division Administrator [Environmental Program Contact]	804-281-5114
	Scott A. Carson	Community Planner	804-281-5137
	Edward S. Sundra	Environmental/Air Quality Coord.	804-281-5114
	Andrew J. Mergenmeier	Technology Transfer Coordinator/Research	804-281-5109

WASHINGTON

501 Evergreen Plaza, 711 South Capitol Way, Olympia 98501

HPM-WA	William H. Kappus	Division Transportation Engineer	360-753-9485
HPM-WA	Megan P. Hall	Assistant Transportation Engineer	360-753-8079
HBR-WA	Timothy Rogers	Assistant Research & T ² Engineer	360-753-9556
HBR-WA	Barry B. Brecto	Structures/Research Transfer Engineer	360-753-9482
HEV-WA	Jose M. Miranda	Environmental Program Manager	360-534-9323

WEST VIRGINIA

550 Eagan Street, Room 300, Charleston 25301-1287

HPD-WV	Jonathan D. Ventura	Statewide/Urban Planning Engineer	304-347-5329
HPD-WV	David A. Leighow	Environment/ROW Officer	304-347-5329
HBR-WV	Jack L. Justice	Bridge Engineer (Research & T ² Responsibility)	304-347-5932

WISCONSIN

567 D'Onofrio Drive, Madison 53719-2814

HSP-WI	Thomas L. Frank	Systems and Programs Engineer	608-829-7514
	Mark D. Hoines	Urban Planning Engineer	608-829-7515
	Jaclyn D. Lawton	Environmental Programs Engineer	608-829-7517
HTA-WI	Dwight E. McComb	Technology Advancement Engineer	608-829-7518

WYOMING

1916 Evans Avenue, Cheyenne 82001-3764

HPM-WY	William C. Besselièvre	Planning & Research Engineer	307-772-2004 x42
	John H. Berg	Technology/ITS Engineer	307-772-2004 x43
	Rodney D. Vaughn	Environmental Coordinator	307-772-2012 x48

FEDERAL TRANSIT ADMINISTRATION

REGIONAL PERSONNEL DIRECTORY

REGION I

TRO-1, Federal Transit Administration
55 Broadway, Suite 920, Kendall Square, Cambridge, Massachusetts 02142-1093
617-494-2055; FAX 617-494-2865

R. Max Vigil	Director, Office of Planning and Program Development — MIS; Air Quality Planning; Compliance with NEPA (EIS, EA, 106, 4(f))
William Gordon	Community Planner — State Planning
Andrew Motter	Community Planner — Metropolitan Planning

REGION II

TRO-2, Federal Transit Administration
26 Federal Plaza, Suite 2940, New York, New York 10278-0194
212-264-8162; FAX 212-264-8973

Anthony Carr	Director, Office of Planning and Development — Region-wide Issues; State and Metropolitan Planning; MIS/MMTI; All New Jersey Planning Issues; Compliance with NEPA (EIS, EA, 106, 4(f))
Robert Ritter	Community Planner — State and Metropolitan Planning; Air Quality Planning, Conformity, CMAQ; Flex Funding, STP, CMAQ; Planning Certifications Lead; Management Systems, PTMS, CMS, IMS; All New York State Planning Issues
Carmen Orta	Community Planner — All New Jersey Planning Issues
Steven Faust	Community Planner — Environmental Compliance

REGION III

TRO-3, Federal Transit Administration
1760 Market Street, Suite 500, Philadelphia, Pennsylvania 19103-4124
215-656-6900; FAX 215-656-7260

Michele Destra	Director, Office of Planning and Program Development
John Garrity, Jr.	Transportation Program Specialist — All Pennsylvania State Planning Issues
Alfred Lebeau	Transportation Program Specialist — All Maryland State Planning Issues; Environmental and Historic Preservation Actions
Anthony Tarone	Transportation Program Specialist — All (except No. VA) Virginia State Planning Issues; ADA

Sandra Balmir

Community Planner

— All State Planning Issues for Delaware and West Virginia;
All Planning Issues for the DC Metro Area (MD, VA, DC)

REGION IV

TRO-4, Federal Transit Administration

1720 Peachtree Road, NW, Suite 400, Atlanta, Georgia 30309-2439

404-347-3948; FAX 404-347-7849

Roger Krahrl

Director, Office of Planning and Program Development

— State and Metropolitan Planning; Air Quality Planning;
Compliance with NEPA (EIS, EA, 106, 4(f))

REGION V

TRO-5, Federal Transit Administration

55 E. Monroe Street, Suite 1415, Chicago, Illinois 60603-5704

312-353-2789; FAX 312-886-0351

Paul Fish

Director, Office of Planning and Program Development

Doug Gerleman

Program Development Officer

— Planning and Air Quality

REGION VI

TRO-6, Federal Transit Administration

524 East Lamar Boulevard, Suite 175, Arlington, Texas 76011-3900

817-860-9663; FAX 817-860-9437

Peggy Crist

Director, Office of Planning and Program Development

— State and Metropolitan Planning; Compliance with NEPA
(EIS, EA, 106, 4(f))

Jessee Balieza

Community Planner

— Air Quality Planning

REGION VII

TRO-7, Federal Transit Administration

6301 Rockhill Road, Suite 303, Kansas City, Missouri 64131-1117

816-523-0204; FAX 816-523-0927

Joan Roeseler

Director, Program Development and Operations

— State and Metropolitan Planning; Air Quality Planning;
Compliance with NEPA; MIS

Mark Johnson

Community Planner

— All State Planning Issues for Missouri and Nebraska

Louise Lloyd

Community Planner

— All State Planning Issues for Kansas and Iowa

REGION VIII

TRO-8, Federal Transit Administration
Columbine Place, Suite 650, Denver, Colorado 80202-5120
303-844-3242; FAX 303-844-4217

Don Cover	Director, Program Development and Operations — Planning and Air Quality; Compliance with NEPA; MIS
-----------	---

REGION IX

TRO-9, Federal Transit Administration
201 Mission Street, Suite 2210, San Francisco, California 94105-1800
415-744-3133; FAX 415-744-2726

Robert Hom	Director, Office of Planning and Program Development — Metropolitan Planning; Compliance with NEPA (EIS, EA, 106, 4(f)); MIS
Donna Turchie	Planner — Statewide Planning; Air Quality Planning

REGION X

TRO-10, Federal Transit Administration
Jackson Federal Building, Suite 3142, 915 2nd Avenue, Seattle, Washington 98174-1002
206-220-7954; FAX 206-220-7959

Patricia Levine	Acting Regional Administrator — Planning and Air Quality
-----------------	---

APPENDIX

LIST OF ACRONYMS

AASHTO	American Association of State Highway and Transportation Officials
ACIR	Advisory Commission on Intergovernmental Relations
ADA	American with Disability Act
BLM	Bureau of Land Management
BTS	Bureau of Transportation Statistics
CAA	Clean Air Act
CAAA	Clean Air Act Amendment
CMAQ	Congestion Mitigation and Air Quality Improvement Program
CO	Carbon Monoxide
CTPP	Census Transportation Planning Package
DOI	Department of Interior
DOT	Department of Transportation
EPA	Environmental Protection Agency
FEIS	Final Environmental Impact Statement
FHWA	Federal Highway Administration
FR	Forest Service
FTA	Federal Transit Administration
GIS	Geographic Information System
GIS-T	Geographic Information System for Transportation
HPMS	Highway Performance Management System
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
ITIS	Integrated Transportation Information System
ITS	Intelligent Transportation System (formerly IVHS)
IVHS	Intelligent Vehicle Highway System
MARAD	Maritime Administration
MIS	Major Investment Studies
MPO	Metropolitan Planning Organization
NAAQS	Nation Ambient Air Quality Standards
NARC	National Association of Regional Councils
NEPA	Nation Environmental Policy Act
NHI	National Highway Institute
NHPN	National Planning Highway Network
NHS	National Highway System
NOx	Nitrogen Oxides
NPS	National Park Service
NRTAC	National Recreational Trails Advisory Committee
OECD	Organization for Economic Cooperation and Development
OST	Office of the Secretary of Transportation
RTCA	Rivers, Trails and Conservation Assistance Program
SIP	State Implementation Plan
STIP	State Transportation Improvement Program
STURAA	Surface Transportation and Uniform Relocation Assistance Act
TCM	Transportation Control Measures
TDM	Travel Demand Management
TIP	Transportation Improvement Program
TRB	Transportation Research Board
VMT	Vehicle Miles of Travel

If you need additional copies of this publication, please
contact us by:

Mail: U.S. Department of Transportation
TASC Subsequent Distribution Office
Ardmore East Business Center
3341 Q 75th Avenue
Landover, MD 20785

Fax: (301) 386-5394

Email: SDS.Info@OST.DOT.GOV



Publication No. FHWA-PD-96-039
HEP-1/10-96(5M)QE